

CERTIFIED MAIL 7018 3090 0001 9999 1778

January 27, 2021

Air and Radiation Division
U. S. Environmental Protection Agency, Region V
77 West Jackson Boulevard,
Chicago, IL 60604



Re: Submittal of U. S. Steel – Minntac and Keetac Compliance Reports per the Requirements of 40 CFR Part 52.1235(e)(5) through (7) – Taconite Regional Haze FIP

U. S. Steel – Keetac (Keetac)

Keetac utilizes Ametek Model 920 analyzers to measure NOx and SO₂ (Serial Number AE-920-10086-1).

Keetac submits quarterly excess emission reports to the Minnesota Pollution Control Agency. Therefore, to fulfill the requirements of the excess emissions and monitoring system performance reports, a copy of the quarterly excess emissions report for the 4th quarter is included in this submittal. Where EPA's requirements per the regulation differ from Minnesota's requirements, this information is also being included.

Any periods of startup and shut down are reported in Section 5 of the DRF-1 Form included in this submittal. There were no deviations during this reporting period.

The emission limitation for SO2 is 225 lbs/hr - 30 day rolling average. There were no deviations associated with the emission limit.

The emission limitation for NOx became effective on September 8, 2019 and is 1.5 lbs/MMBtu based on a 30-day rolling average. However, for any 30 or more consecutive days when only natural gas is used, a limit of 1.2 lbs/MMBtu applies. Refer to attachment 1.

The last CEMS CGA was conducted on December 12, 2020 and was previously provided. The last CEMS RATA was conducted on March 24, 2020 and was submitted separately on April 28, 2020.

U. S. Steel - Minntac (Minntac)

Minntac utilizes Ametek Model 920 analyzers to measure NOx and SO_2 . The table below outlines the serial numbers for each of the units:

| Line 3 | AE-920-10086-1 | |
|--------|----------------|--|
| Line 4 | AE-920-10086-2 | |
| Line 5 | AE-920-10086-3 | |
| Line 6 | ZA-920-10336-1 | |

Minntac submits quarterly excess emission reports to the Minnesota Pollution Control Agency. Therefore, to fulfill the requirements of the excess emissions and monitoring system performance reports, a copy of the quarterly excess emissions report for the 4th quarter is included in this submittal. Where EPA's requirements per the regulation differ from Minnesota's requirements, this information is also being included.

Any periods of startup and shut down are reported in Section 5 of the DRF-1 Form included in this submittal. There were no deviations during this reporting period.

The emission limitation for SO_2 is a 30-day rolling average aggregate limit for indurating lines 3-7 of 498 lbs/hr when all lines are producing flux pellets, 630 lbs/hr when producing acid pellets or using the equation in 40 CFR 52.1235(b)(2)(iii) when the 30 day period includes both acid and flux pellet production. There were no deviations associated with the emission limit.

The emission limitation for NOx on Lines 4, 5, 6 and Line 7 is 1.5 lbs/MMBtu based on a 30-day rolling average. However, for any 30 or more consecutive days when only natural gas is used, a limit of 1.2 lbs/MMBtu applies. There were no deviations associated with the emission limit for Lines 4, 5, 6 and Line 7.

The latest CEMS RATA was conducted on Lines 3-5 on May 20-22, 2020 and for Lines 6 and 7 on August 19-20, 2020. The first report was submitted on July 8, 2020. The subsequent report was submitted on October 6, 2020. The last CGAs were performed on November 3rd and 4th of 2020.

If you should require any additional information, please contact me at scampbell@uss.com or 218-778-8684.

Sincerely,

Stephani Campbell

Environmental Control

Alexham Campbell



U. S. Steel Corporation Minnesota Ore Operations P.O. Box 217 Keewatin, MN 55753

CERTIFIED MAIL 7018 3090 0001 9999 1761

January 27, 2021

Air Quality Compliance Tracking Coordinator Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, MN 55155-4194

Re:

U. S. Steel – Keetac Administrative Order by Consent Quarterly Continuous Monitoring System Deviation Report

Dear Supervisor:

Enclosed with this letter is U. S. Steel – Keetac's (Keetac) Quarterly Continuous Emission Monitoring System Deviation report for the 4th quarter of 2020. The Continuous Emission Monitoring System (CEMS) was certified on Keetac's Waste Gas Stack on November 6th, 2008. The CEMS was installed as a part of Keetac's Administrative Order by Consent with the State of Minnesota effective September 27th, 2007.

Deviations associated with Emission Limits

There were no deviation associated with emission limits.

Deviations associated with Monitor Downtime

There were fifteen instances of monitor downtime that affected either NO_x or SO_2 . The individual downtime duration and cause is listed in the monitor downtime section of this report.

Deviations associated with Monitor Bypass

Keetac utilizes a grate/kiln system for pelletizing taconite. Although this is an extremely hot process (with temperatures exceed 2500 °F in the kiln), the equipment is designed to withstand the high temperatures and will do so during normal operation. However, the grate is very susceptible to heat damage during upset conditions or if stopped for any reason while it is hot. To prevent equipment damage and heat related safety issues during these situations, large amounts of heat must be released from the grate as soon as possible. For that reason the system was designed

such that when the grate stops or gets overheated, a stack cap is lifted to release heat through an emergency stack. At this time the monitor is bypassed. These situations are the only times the monitor is bypassed. Because they represent upset conditions or process downtime (production loss), the company has a strong vested interest in minimizing both the number and duration of occurrences.

The times listed in the monitor bypass section are when the grate emergency stack cap is open and there is combustion in the kiln. This is the only time when any NO_x and SO_2 are emitted. Times when the cap is open but there is no combustion in the kiln are not listed.

If you have any questions concerning these forms, please contact Stephani Campbell at (218) 778-8684.

Sincerely,

Travis Kolari

Plant Manager

U. S. Steel - Minnesota Ore Operations

Enclosure

cc: Steve Palzkill - MPCA

File



Excess Emissions Reporting Form - DRF-1

Continuous Monitoring Systems Reporting Form

Please note: This form has been updated. Please print, complete and remit only the forms. Please see the instructions in the Word version of DRF-1 to ensure proper use and understanding of definitions. DO NOT print and return the instructions.

Use this form to record and report excess emissions (EE) that are identified by Continuous Monitoring Systems. This includes Continuous Emission Monitoring Systems (COMS). DRF-1 is the form you must use to report excess emissions from a stack as recorded by your facility's Continuous Emission Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS).

Address hard copy C

Compliance Tracking Coordinator, Fourth Floor

Minnesota Pollution Control Agency

520 Lafayette Road North

St. Paul, MN 55155-4194

1) General Facility Information

Company name: U. S. Steel - Keetac

AQ file no.: 62B Report covers Quarter: Fourth

13700063-005

Year:

AQ permit no .:

2) CEMS/COMS Data Summary Table

| | 2g) | Total EE % of TOT | | %00.0 | %00.0 | |
|-----------------------------------|------|--|--------|----------|----------|--|
| SSIONS (EE) | 4m) | Cumulative Total Duration of | All EE | 0 | 0 | |
| Duration of Excess Emissions (EE, | 2f) | Exempt EE % of TOT Cumulative Total EE Total % of TOT | | N/A | N/A | A STATE OF THE PERSON OF THE P |
| | 41) | Downtime Cumulative % Of TOT Duration of Exempt EE | | N/A | N/A | |
| owntime | (3e) | Downtime % Of TOT | | 2.3% N/A | 1.3% N/A | |
| Duration of Monitor Downtime | 31) | Total Duration of Monitor Downtime Cumulative Monitor Cumulative Downtime (hr) Monitor Exempt EE Exempt EE | | 14 | 8 | |
| | 2d) | Total Operation | | 9.609 | 9.609 | |
| | 2c) | EU/SV ID Number | | SV 051 | SV 051 | |
| | 2b) | Monitor ID Monitor ID EU/SV ID Number Pollutant Number | | NOx | SO2 | |
| | 2a) | Monitor ID Number | | | Line 2 | |

3) Duration of Monitor Downtime: Provide the following information regarding each period of monitor downtime. Make a separate table for each monitor, as needed.

| 33) | 3b) | 3c) | 3a) 3b) 3c) 3d) | 3e) |] 3f) | (3e) (3f) (3g) (3h) | 3h) |
|----------------------|---|-------------------------------------|-------------------------------------|----------------------------------|----------------------------------|--|---|
| Monitor ID Number | Monitor ID Pollutant or Parameter | Emission Unit Being Monitored | Beginning Date and Time of Downtime | End Date and Time of Downtime | Duration of Downtime (min) | Reason for Monitor Downtime (clarifying comments) | Corrective Action Taken (clarifying comments) |
| Line 2 | SO2 | SV 051 | 12/11/2020 09:00:00 | 12/11/2020 09:59:00 | 09 | 60 Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | 802 | SV 051 | 12/13/2020 04:00:00 | 12/13/2020 05:59:00 | 120 | 120 Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | s02 | SV 051 | 12/16/2020 04:00:00 | 12/16/2020 05:59:00 | 120 | 120 Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | 802 | SV 051 | 12/20/2020 23:00:00 | 12/20/2020 23:59:00 | 09 | 60 Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | 802 | SV 051 | 12/30/2020 20:00:00 | 12/30/2020 20:59:00 | 09 | Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | SO2 | SV 051 | 12/31/2020 00:00:00 | 12/31/2020 00:59:00 | 90 | 60 Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | NOX | SV 051 | 12/09/2020 06:00:00 | 12/09/2020 06:59:00 | 09 | 60 Automatic Calibration | Performed necessary maintenance |
| Line 2 | XON | SV 051 | 12/09/2020 07:00:00 | 12/09/2020 10:59:00 | 240 | 240 Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | XON | SV 051 | 12/09/2020 11:00:00 | 12/09/2020 11:59:00 | 09 | 60 Automatic Calibration | Performed necessary maintenance |
| Line 2 | NOX | SV 051 | 12/11/2020 09:00:00 | 12/11/2020 09:59:00 | 09 | 60 Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | NOX | SV 051 | 12/13/2020 04:00:00 | 12/13/2020 05:59:00 | 120 | 120 Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | XON | SV 051 | 12/16/2020 04:00:00 | 12/16/2020 05:59:00 | 120 | 120 Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | XON | SV 051 | 12/20/2020 23:00:00 | 12/20/2020 23:59:00 | 90 | 60 Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | NOX | SV 051 | 12/30/2020 20:00:00 | 12/30/2020 20:59:00 | 09 | 60 Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 2 | NOX | SV 051 | 12/31/2020 00:00:00 | 12/31/2020 00:59:00 | 09 | Primary Analyzer Malfunction | Performed necessary maintenance |
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| | | | | | | e de la companya de l | |
| Person | | | | | | The state of the s | |
| | | | | | | | |
| | | | 31) Tot | 3i) Total duration of downtime: | 22 | hours | - Walter |
| | | | • | | | | |

*Opacity time listed in minutes

Corrective Action Taken (clarifying comments) 0 Hrs N/A N/A 4m) Cumulative Total Duration (clarifying comments) Cause of EE N/A N/A ₹ Duration of All EE Total 4) Duration of Excess Emissions: Provide the following information regarding each individual excess emission 0 0 Highest Duration of Reading of Exempt EE I EE with (include o entries as part of 4i) these 0 0 0 (example: 5 lb/hr, etc) 4I) Cumulative Duration of Exempt Excess Emissions: Units N/A N/A Limit and Averaging Period ٨ Ϋ́ End Date and Time of EE N/A N/A Beginning Date and Time of EE N/A N/A Emission Monitor ID Pollutant or Unit ID Number Parameter Number Monitored Š **S02** CM001 CM005 SV051 SV051

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were

| 5a) | 5h) | 50) | 5a) 5b) 5c) 5d) 5d) 5a) 5d) 5a) 5a) 5a) 5a) 5a) 5a) | - 2e) | 51) | 5a) | 5h) | 5i) | 5]) |
|----------------------|--|------------------------|---|---|----------------------------------|---|---|---|---|
| Monitor ID number | Emission Unit Required to be Monitored | Po and Red Mo | Beginning Date and Time of Bypass Period | End date and time of bypass period | Duration of monitor bypass (min) | Was P.C.E. operating during bypass period? | Duration of allowable monitor bypass (min) | Reason for monitor bypass (clarifying comments) | Corrective action taken (clarifying comments) |
| Line 2 | SV 051 | NOx and SO2 | 12/6/2020 14:30 | 12/6/2020 23:00 | 510 | Yes | 510 | Bypass necessary to protect plant equipment | A/N |
| Line 2 | SV 051 | NOx and SO2 | 12/6/2020 23:00 | 12/7/2020 7:00 | 480 | Yes | 480 | Bypass necessary to protect plant equipment | N/A |
| Line 2 | SV 051 | NOx and SO2 | 12/7/2020 7:00 | 12/7/2020 15:00 | 480 | Yes | 480 | Bypass necessary to protect plant equipment | N/A |
| Line 2 | SV 051 | NOx and SO2 | 12/7/2020 15:00 | 12/7/2020 23:00 | 480 | Yes | 480 | Bypass necessary to protect plant equipment | N/A |
| Line 2 | SV 051 | NOx and SO2 | 12/7/2020 23:00 | 12/8/2020 7:00 | 480 | Yes | 480 | Bypass necessary to protect plant equipment | N/A |
| Line 2 | SV 051 | NOx and SO2 | 12/16/2020 8:00 | 12/16/2020 8:32 | 32 | Yes | 32 | Bypass necessary to protect plant equipment | A/N |
| Line 2 | SV 051 | NOx and SO2 | 12/20/2020 23:30 | 12/21/2020 0:30 | 59 | Yes | 59 | Bypass necessary to protect plant equipment | N/A |
| Line 2 | SV 051 | NOx and SO2 | 12/21/2020 0:30 | 12/21/2020 2:32 | 123 | Yes | 123 | Bypass necessary to protect plant equipment | N/A |
| Line 2 | SV 051 | NOx and SO2 | 12/22/2020 7:02 | 12/22/2020 10:57 | 234 | Yes | 234 | Bypass necessary to protect plant equipment | N/A |
| Line 2 | SV 051 | NOx and SO2 | 12/26/2020 23:04 | 12/26/2020 23:58 | 54 | Yes | 54 | Bypass necessary to protect plant equipment | N/A |
| Line 2 | SV 051 | NOx and SO2 | 12/28/2020 14:02 | 12/28/2020 14:34 | 32 | Yes | 32 | Bypass necessary to protect plant equipment | N/A |
| Line 2 | SV 051 | NOx and SO2 | 12/30/2020 20:34 | 12/30/2020 21:00 | 26 | Yes | 26 | Bypass necessary to protect plant equipment | N/A |
| Line 2 | SV 051 | NOx and SO2 | 12/30/2020 21:00 | 12/30/2020 21:36 | 35 | Yes | 35 | Bypass necessary to protect plant equipment | N/A |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | C | | |
| | | | 5k) Total dt | 5k) Total duration of allowable monitor bypass: | oass: | | 50 | hours | |

| audits | |
|--------|--|
| ΣSS | |
| g | |

| COMS AUDIES | | | | | | | | desired, the influencementary, distribution and a substantial party with the common managery, |
|--|--------------------|--|---------------|--------------------|------------------------------|-------------------|----------------------|--|
| Subject item | Operating hours | Monitor ID | Pollutant | Last audit date | Cal error results | Pass/fail | Next test due by: | Comments |
| | | | | | | | | |
| N/A | | | | | | | | THE TAXABLE PROPERTY OF THE PR |
| | | | | | | | | |
| Cylinder gas audit's (CGA) | audit's (C | GA) | | | | | | |
| Ď. | Operating | Monitor ID | Dollitant | Last audit | Calerror results Pass/fail | | Next test | Comments |
| LIII WASION OILE | 200 | | | | Low 0.7% | | | |
| SV051/EU030 | 609.5 | CM001 | NOX | 12/12/2020 | Mid 0.31% Pass | Pass | 6/30/2021 | RATA 1st Qtr |
| | | | | | Low 4.46% | | | |
| SV051/EU030 | 609.5 | CM005 | SO2 | 12/12/2020 | Mid 2.32% Pass | | 6/30/2021 | RATA 1st Qtr |
| THE STATE OF THE S | | | | | | | | |
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| TO CONTRACTOR OF THE PARTY OF T | | NAME OF THE OWNER OF THE OWNER OF THE OWNER OWNE | | | | | | Apprendiction of the second se |
| linearity | | | | | | | | |
| 4 | Operating | | 7 - 7 - 1 - 6 | Last audit | 10000 | lio di con Contra | Next test | To a server of the first of the |
| Emission unit | nours | MODITOFILE | rollutant | dale | Cal ellol results | 455/1411 | nue ny. | |
| N/A | | | | | Mid | | | A A A A STREET AND |
| Relative accuracy test audit (RATA) | curacy test | audit (RAT | -A) | | | | | |
| Emission unit | Operating hours | Monitor ID | Pollutant | Last audit date | Relative accuracy | Pass/fail | Next test due by: | Comments |
| | 0 | CM001 | ×ON | 3/24/2020 | 10.4% | Pass | 3/31/2021 | |
| | | , C C C C C C C C C C C C C C C C C C C | C | 0000770 | | , co | 10001 | |
| SVUOI | | CONION | 205 | 0/24/2020 | 0,0,0 | 000 | 17071010 | |
| | | | | | | | | eringe, and the total construction, which constructs are the construction. |

6) CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature of Responsible Official

Travis Kolari Printed Name of Responsible Official

January 27, 2021

Plant Manager - Minnesota Ore Title

Date

Summary Table by Monitor Downtime Type U. S. Steel - Keetac 4th Quarter 2020

NOx

| Line | Duration (Hrs) | Description | | |
|--------|---------------------------------|----------------------------------|--|--|
| Line 2 | 2 | Automatic Calibration | | |
| | 0 | Data Handling System Malfunction | | |
| | 0 | Sample Interface Malfunction | | |
| | 0 Excess Drift Primary Analyzer | | | |
| | 12 | Primary Analyzer Malfunction | | |
| | 0 | Preventative Maintenance | | |

SO2

| Line | Duration (Hrs) | Description |
|--------|----------------|----------------------------------|
| Line 2 | 0 | Automatic Calibration |
| | 0 | Data Handling System Malfunction |
| | 0 | Sample Interface Malfunction |
| | 0 | Excess Drift Primary Analyzer |
| | 8 | Primary Analyzer Malfunction |
| | 0 | Preventative Maintenance |

Attachment 1 - Duration of Excess Emissions Table

| Emission | Monitor | Pollutant | Emission Monitor Pollutant Date of EE | Beginning and | Magnitude of the EE | Cause of EE | Corrective or Preventative |
|----------|----------|-----------|---------------------------------------|----------------|---|------------------------------------|---------------------------------------|
| Unit ID | <u>Q</u> | | | end time of EE | | | Actions Taken |
| SV051 | CM001 | NOX | 12/8/20- | 12/8/20- | NOx emissions have not | The USEPA Federal | U. S. Steel – Keetac is actively in |
| | | | 12/31/20 | 12/31/20 | increased at U. S. Steel - | Implementation Plan for | mediation with USEPA regarding the |
| | | | | | Keetac. The applicable limit | Regional Haze for Keetac | FIP NOx limits. During this |
| | | | | | is significantly lower than | which established significantly | mediation process, U. S. Steel has |
| | | | | | Keetac's historic emissions | more stringent limits became | completed studies regarding Keetac |
| | | | | | using good combustion | effective on September 8, | emissions in an effort to reach |
| | | | | | practices. Because the FIP | 2019. This limit is currently | resolution. USEPA is reviewing |
| | | | | | limit is significantly more | under judicial review in the | these materials. In the meantime, |
| | | | | | stringent than the existing | U.S. Court of Appeals for the | U. S. Steel – Keetac is relying on |
| | | | | | state standard, the | Eighth Circuit in which U. S. | good combustion practices to |
| | | | | | emissions at Keetac, | Steel has challenged the | minimize emissions while avoiding |
| | | | | | despite good combustion | technological and economical | impacts to safety and pellet quality. |
| | | | | | practices are substantially | feasibility of the limit. There is | |
| | | | | | higher than the existing FIP | also ongoing mediation | |
| | | | | | limit. | between U. S. Steel and USEPA | |
| | | | | | | to resolve that case and to | |
| | | | | | | develop revised NOx limits. | |
| SV051 | CM005 | 502 | N/A | N/A | N/A | N/A | N/A |

U. S. Steel Corporation Minnesota Ore Operations P.O. Box 417 Mt. Iron, MN 55768

CERTIFIED MAIL 7018 3090 0001 9999 1754

January 27, 2021

Air Quality Compliance Tracking Coordinator Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, MN 55155-4194

Re:

United States Steel Corporation, Minnesota Ore Operations – Minntac Air Emissions Permit No. 13700005-006

Quarterly Continuous Monitoring System Deviation Report

Dear Supervisor:

Enclosed with this letter is U. S. Steel – Minntac's (Minntac) Quarterly Excess Emissions Reporting Form for the 4^{th} quarter of 2020. NOx/SO₂ Continuous Emission Monitoring Systems (CEMS) are certified on all Agglomerator Waste Gas Lines.

Deviations associated with Emission Limits

There were no deviations during the 4th quarter of 2020.

Deviations associated with Monitor Downtime

There were one hundred and nine instances of monitor downtime for either NOx or SO₂. The individual downtime durations and causes are listed in the monitor downtime section of this report.

Deviations associated with Monitor Bypass

Minntac utilizes a grate/kiln system for pelletizing taconite. Although this is an extremely hot process (with temperatures exceed 2500°F in the kiln), the equipment is designed to withstand the high temperatures and will do so during normal operation. However, the grate is very susceptible to heat damage during upset conditions or if stopped for any reason while it is hot. To prevent equipment damage and heat related safety issues during these situations, large amounts of heat must be released from the grate as soon as possible. For that reason the system was designed such that when the grate stops or gets overheated, a stack cap is lifted to release heat through an emergency stack. At this time the monitor is bypassed. These situations are the only times the monitor is bypassed. Because they represent upset conditions or process downtime (production loss), the company has a strong vested interest in minimizing both the number and duration of occurrences.

The times listed in the monitor bypass section are when the grate emergency stack cap is open and there is combustion in the kiln. This is the only time when any NO_x or SO_2 is emitted. Times when the cap is open but there is no combustion in the kiln are not listed.

If you have any questions concerning these forms, please contact Stephani Campbell at (218) 778-8684.

Sincerely,

Lukas Klemke

Plant Manager – Minntac

Enclosure

cc:

Steve Palzkill - MPCA

File



St. Paul, MN 55155-4194

Excess Emissions Reporting Form

Air Quality Permit Program Doc Type: Excess Emission Report

Note: Please complete, and remit only the forms. Please see the instructions to ensure proper use and understanding of definitions. Do not print and return the instructions.

General Information about Deviation and Compliance Reporting

If your permit requires you to submit deviation reports or an annual compliance certification, you should use the Deviation Reporting Forms (DRFs) and Annual Compliance Certification Report (CR-04), unless you get Minnesota Pollution Control Agency (MPCA) approval to use another format or your facility's permit specifies otherwise. There are two separate DRF forms: DRF-1 and DRF-2.

DRF-2

is used to report direct excess stack emissions (EE) recorded by Continuous Emission Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems is used to report deviations recorded by periodic monitoring systems, deviations of permitted operating conditions and surrogate parameters whether recorded

Some examples: flow rate, temperature, throughput, control equipment operating parameters, fuel-use records

CR-04:

is used to report facility compliance status at the end of each year if required by your permit.

Address hard copy

Air Compliance Tracking Coordinator, Minnesota Pollution Control Agency

report submittals to:

520 Lafayette Road North, St. Paul, Minnesota 55155-4195

Or e-mail a signed and

AQRoutineReport.PCA@state.mn.us

scanned PDF copy to:

(see e-mail instructions in "Routine Air Report Instructions Letter" at:

http://www.pca.state.mn.us/nwqh472

1) General Facility Information

Facility name:

United States Steel Corporation, Minnesota Ore Operations, Minntac

AQ file no.:

County:

St. Louis

AQ permit #: Year:

13700005 2020

Report covers quarter:

Fourth

2) CEMS/COMS Data Summary Table

| | | | | Duration of Downt | The responsibility of | Du | ıration of Ex | cess Emissions (| (EE) |
|----------------------|-------------------------|--------------------|----------------------------------|---|-----------------------|--|-----------------------|---|----------------------|
| 2a) | 2b) | 2c) | 2d) | 3i) | 2e) | 41) | 2f) | 4m) | 2g) |
| Monitor ID Number | Monitor ID Pollutant | EU/SV ID Number | Total Operating Time (TOT) | Total Duration of Monitor Downtime (hr) | Downtime % Of TOT | Cumulative Duration of Exempt EE | Exempt EE % of TOT | Cumulative Total Duration of All EE | Total EE % of TOT |
| MR 001 | NOx | SV-103 | 2179 | 14 | 0.6% | 0 | 0% | 0 | 0% |
| MR 002 | NOx | SV-118 | 2110 | 16 | 0.8% | 0 | 0% | 0 | 0% |
| MR 003 | NOx | SV-127 | 2195 | 4 | 0.2% | 0 | 0% | 0 | 0% |
| MR 004 | NOx | SV-144 | 2174 | 37 | 1.7% | 0 | 0% | 0 | 0% |
| MR 005 | NOx | SV-151 | 2176 | 54 | 2.5% | 0 | 0% | 0 | 0% |
| MR 001 | SO2 | SV-103 | 2179 | 36 | 1.7% | 0 | 0% | 0 | 0% |
| MR 002 | SO2 | SV-118 | 2110 | 17 | 0.8% | 0 | 0% | 0 | 0% |
| MR 003 | SO2 | SV-127 | 2195 | 4 | 0.2% | 0 | 0% | 0 | 0% |
| MR 004 | SO2 | SV-144 | 2174 | 34 | 1.6% | 0 | 0% | 0 | 0% |
| MR 005 | SO2 | SV-151 | 2176 | 46 | 2.1% | 0 | 0% | 0 | 0% |

| | or, as needed. | | tor on | | | ···· | |
|----------------------|--|-------------------------------------|--|----------------------------------|--------------------------------------|---|---|
| 3a) | 3b) | 3c) | 3d) | 3e) | 3f) | 3g) | 3h) |
| Monitor ID Number | Pollutant or parameter monitored | Emission Unit Being Monitored | Beginning Date and Time of Downtime | End Date and Time of Downtime | Duration of Downtime (minutes) | Reason for Monitor Downtime (clarifying comments) | Corrective ActionTaken (clarifying comments) |
| Line 3 | NOx | SV103 | 10/15/2020 09:00:00 | 10/15/2020 09:59:00 | 60 | Sample Interface Malfunction | Performed necessary maintenance |
| Line 3 | NOx | SV103 | 10/22/2020 05:00:00 | 10/22/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | NOx | SV103 | 10/24/2020 05:00:00 | 10/24/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | NOx | SV103 | 10/25/2020 06:00:00 | 10/25/2020 09:59:00 | 240 | Excess Drift Primary Analyzer | Performed necessary maintenance |
| Line 3 | NOx | SV103 | 12/18/2020 05:00:00 | 12/18/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | NOx | SV103 | 12/19/2020 05:00:00 | 12/19/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | NOx | SV103 | 12/19/2020 06:00:00 | 12/19/2020 09:59:00 | 240 | Excess Drift Primary Analyzer | Performed necessary maintenance |
| Line 3 | NOx | SV103 | 12/19/2020 10:00:00 | 12/19/2020 10:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 10/15/2020 09:00:00 | 10/15/2020 09:59:00 | 60 | Sample Interface Malfunction | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 10/22/2020 05:00:00 | 10/22/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 10/24/2020 05:00:00 | 10/24/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/17/2020 09:00:00 | 12/17/2020 15:59:00 | 420 | Primary Analyzer Malfunction | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/18/2020 05:00:00 | 12/18/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/19/2020 05:00:00 | 12/19/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/19/2020 06:00:00 | 12/19/2020 09:59:00 | 240 | Excess Drift Primary Analyzer | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/19/2020 10:00:00 | 12/19/2020 10:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/20/2020 05:00:00 | 12/20/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/20/2020 06:00:00 | 12/20/2020 08:59:00 | 180 | Excess Drift Primary Analyzer | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/20/2020 09:00:00 | 12/20/2020 09:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/21/2020 05:00:00 | 12/21/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/21/2020 06:00:00 | 12/21/2020 09:59:00 | 240 | Excess Drift Primary Analyzer | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/22/2020 05:00:00 | 12/22/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/22/2020 06:00:00 | 12/22/2020 09:59:00 | 240 | Excess Drift Primary Analyzer | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/23/2020 05:00:00 | 12/23/2020 05:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 3 | SO2 | SV103 | 12/23/2020 06:00:00 | 12/23/2020 08:59:00 | 180 | Excess Drift Primary Analyzer Primary Analyzer | Performed necessary maintenance |
| Line 4 | NOx | SV118 | 10/08/2020 13:00:00 | 10/08/2020 13:59:00 | 60 | Primary Analyzer Malfunction Primary Analyzer | Performed necessary maintenance Performed necessary |
| Line 4 | NOx | SV118 | 10/15/2020 13:00:00 | 10/15/2020 15:59:00 | 180 | Malfunction | maintenance Performed necessary |
| Line 4 | NOx | SV118 | 10/21/2020 06:00:00 | 10/21/2020 06:59:00 | 60 | Automatic Calibration | maintenance Performed necessary |
| Line 4 | NOx | SV118 | 10/30/2020 06:00:00 | 10/30/2020 08:59:00 | 180 | Automatic Calibration | maintenance Performed necessary |
| Line 4 | NOx | SV118 | 11/05/2020 06:00:00 | 11/05/2020 06:59:00 | 60 | Automatic Calibration | maintenance Performed necessary |
| Line 4 | NOx | SV118 | 12/09/2020 06:00:00 | 12/09/2020 06:59:00 | 60 | Automatic Calibration | maintenance |

| Say | | or, as needed. | | 0.11 | | | | |
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| Devertime | | , , | | | | , | | |
| Line 4 NOX SV118 12/22/2220 08:00:00 12/22/2220 06:00:00 240 Automatic Calibration Performed necessary maintenance Line 4 NOX SV118 12/22/2220 07:00:00 12/22/2220 06:50:00 60 Automatic Calibration Performed necessary maintenance Line 4 SO2 SV118 10/15/2202 05:50:00 12/25/2220 05:50:00 60 Automatic Calibration Performed necessary maintenance Performed necessary Performed necessary maintenance Performed necessary maintenance Performed necessary Performed neces | 1 1 | | | | | | | 1 |
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| Line 4 | line 4 | NOx | SV118 | 12/22/2020 06:00:00 | 12/22/2020 06:59:00 | 60 | Automatic Calibration | |
| Line 4 | LING T | NOX | 07110 | 12/22/2020 00:00:00 | 12/22/2020 00:00:00 | 00 | | |
| Line 4 | Line 4 | NOx | SV118 | 12/22/2020 07:00:00 | 12/22/2020 10:59:00 | 240 | | , , |
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| Line 4 | Line 4 | NOx | SV118 | 12/26/2020 06:00:00 | 12/26/2020 06:59:00 | 60 | Automatic Calibration | 1 |
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| Line 4 SO2 SV118 10/31/2020 06:00:00 10/31/2020 06:90:00 60 Automatic Calibration Performed necessary maintenance Performed | Line 4 | SO2 | SV118 | 10/15/2020 13:00:00 | 10/15/2020 15:59:00 | 180 | | |
| Line 4 SOZ SV118 10/30/2020 06:00:00 10/30/2020 06:59:00 60 Automatic Calibration Performed necessary Initiation In | Line 4 | 502 | CV/110 | 10/21/2020 06:00:00 | 10/21/2020 06:50:00 | 60 | Automotic Calibration | Performed necessary |
| Line 4 SO2 SV118 11/05/2020 05:00:00 11/05/2020 05:59:00 60 Automatic Calibration maintenance Performed necessary maintenance | LINE 4 | 502 | 37110 | 10/21/2020 00.00.00 | 10/21/2020 00.59.00 | 00 | Automatic Cambration | |
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| Line 4 SO2 SV118 12/09/2020 06:00:00 12/09/2020 06:59:00 60 Automatic Calibration maintenance Performed necessary maintenance | | | 0,7.0 | 10,00,2020 | 75(03)2020 | | | |
| Line 4 | Line 4 | SO2 | SV118 | 11/05/2020 06:00:00 | 11/05/2020 06:59:00 | 60 | Automatic Calibration | |
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| Line 4 SO2 SV118 12/28/2020 06:00:00 12/28/2020 06:09:00 60 Automatic Calibration Performed necessary maintenance Line 4 SO2 SV118 12/28/2020 06:00:00 12/28/2020 17:59:00 120 Primary Analyzer Malfunction Performed necessary maintenance Performe | Line 4 | SO2 | SV118 | 12/22/2020 06:00:00 | 12/22/2020 06:59:00 | 60 | Automatic Galibration | |
| Line 4 SO2 SV118 12/26/2020 06:00:00 12/26/2020 16:00:00 60 Automatic Calibration Performed necessary maintenance Line 5 SO2 SV127 10/04/2020 06:00:00 10/14/2020 06:59:00 60 Automatic Calibration Performed necessary maintenance Line 5 SO2 SV127 10/14/2020 06:00:00 10/14/2020 06:59:00 60 Automatic Calibration Performed necessary maintenance Line 5 SO2 SV127 10/14/2020 06:00:00 10/14/2020 06:59:00 60 Automatic Calibration Performed necessary maintenance Line 5 SO2 SV127 10/14/2020 06:00:00 10/14/2020 06:59:00 60 Automatic Calibration Performed necessary maintenance Line 5 SO2 SV127 12/04/2020 23:00:00 12/04/2020 23:59:00 60 Automatic Calibration Performed necessary maintenance Line 6 NOX SV144 10/19/2020 06:00:00 10/19/2020 06:59:00 60 Automatic Calibration Performed necessary maintenance Line 6 NOX SV144 11/07/2020 14:00:00 11/07/2020 14:59:00 60 Automatic Calibration Performed necessary maintenance Line 6 NOX SV144 11/07/2020 14:00:00 11/07/2020 14:59:00 60 Automatic Calibration Performed necessary maintenance Line 6 NOX SV144 11/07/2020 14:00:00 11/07/2020 14:59:00 60 Automatic Calibration Performed necessary maintenance Line 6 NOX SV144 11/07/2020 11:00:00 11/17/2020 07:09:00 60 Automatic Calibration Performed necessary maintenance Pe | Line 4 | 502 | Q\/11B | 12/22/2020 07:00:00 | 12/22/2020 10:50:00 | 240 | Excess Drift Primary | Performed necessary |
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| Line 5 SO2 SV127 10/04/2020 0.4:00:00 10/04/2020 0.4:59:00 60 Maifunction Performed necessary maintenance Maifunction Performed necessary maintenance Performed necessary Performe | Line 4 | SO2 | SV118 | 12/26/2020 16:00:00 | 12/26/2020 17:59:00 | 120 | , , | |
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| T Line 6 T SC2 T SV144 T 11/1/2020 D600000 T 11/37/2020 0659/10 T 60 T AUTOMATIC CAUDIATION 1 | 15 | 000 | 0.44 | 44/47/0000 00:00:00 | 11/17/2020 00:50:02 | 60 | Automotic Catthactic | |
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| Nombridge Continued Cont | each monite 3a) | or, as needed. 3b) | 3c) | 3d) | 3e) | 3f) | 3g) | 3h) |
|--|--------------------|-----------------------|-----------|----------------------|---|-----------|-----------------------|---------------------|
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| Line 7 SO2 SV151 11/02/2020 06:00:00 11/02/2020 06:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/02/2020 07:00:00 11/02/2020 13:59:00 420 Primary Analyzer Malfunction Performed necessary maintenance Line 7 SO2 SV151 11/09/2020 23:00:00 11/09/2020 23:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/21/2020 07:00:00 11/21/2020 07:59:00 80 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/21/2020 08:00:00 11/21/2020 09:59:00 120 Primary Analyzer Malfunction Performed necessary maintenance Line 7 SO2 SV151 11/23/2020 08:00:00 11/23/2020 08:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:0 | Line 7 | SO2 | SV151 | 11/01/2020 07:00:00 | 11/02/2020 05:59:00 | 1,380 | , , | , |
| Line 7 SO2 SV151 11/02/2020 06:00:00 11/02/2020 06:59:00 60 Automatic Calibration maintenance Line 7 SO2 SV151 11/02/2020 07:00:00 11/02/2020 13:59:00 420 Primary Analyzer Malfunction Performed necessary maintenance Line 7 SO2 SV151 11/09/2020 23:00:00 11/09/2020 23:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/21/2020 07:00:00 11/21/2020 07:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/21/2020 08:00:00 11/21/2020 09:59:00 120 Primary Analyzer Malfunction Performed necessary maintenance Line 7 SO2 SV151 11/23/2020 08:00:00 11/23/2020 08:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 1 | 1 3 | 200 | 0) (4.5.4 | 44/00/0000 00.00.00 | 441000000000000000000000000000000000000 | | | |
| Line 7 SO2 SV151 11/02/2020 07:00:00 11/02/2020 13:59:00 420 Malfunction maintenance Line 7 SO2 SV151 11/09/2020 23:00:00 11/09/2020 23:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/21/2020 07:00:00 11/21/2020 07:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/21/2020 08:00:00 11/21/2020 09:59:00 120 Primary Analyzer Malfunction Performed necessary maintenance Line 7 SO2 SV151 11/23/2020 08:00:00 11/23/2020 08:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 08:00:00 11/29/2020 08:59:00 60 < | Line / | 502 | 50751 | F1/02/2020 06:00:00 | 11/02/2020 06:59:00 | 60 | | maintenance |
| Line 7 SO2 SV151 11/09/2020 23:00:00 11/09/2020 23:59:00 60 Automatic Calibration maintenance Performed necessary maintenance Line 7 SO2 SV151 11/21/2020 07:00:00 11/21/2020 07:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/21/2020 08:00:00 11/21/2020 09:59:00 120 Primary Analyzer Malfunction Performed necessary maintenance Line 7 SO2 SV151 11/23/2020 08:00:00 11/23/2020 08:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 08:00:00 11/29/2020 08:59:00 60 Excess Drift Primary Performed necessary maintenance | Line 7 | SO2 | SV151 | 11/02/2020 07:00:00 | 11/02/2020 13:59:00 | 420 | | |
| Line 7 SO2 SV151 11/09/2020 23:00:00 11/09/2020 23:00:00 11/09/2020 23:00:00 60 Automatic Calibration Maintenance maintenance Performed necessary maintenance Line 7 SO2 SV151 11/21/2020 08:00:00 11/21/2020 09:59:00 120 Primary Analyzer Malfunction Performed necessary maintenance Line 7 SO2 SV151 11/23/2020 08:00:00 11/23/2020 08:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 08:00:00 11/29/2020 08:59:00 60 Excess Drift Primary Performed necessary maintenance | Line 7 | 803 | Q\/4E4 | 14/00/2020 22:00:00 | 11/00/2020 22-50-00 | 60 | | |
| Line 7 SO2 SV151 11/21/2020 07:00:00 11/21/2020 07:59:00 120 Automatic Calibration Malfunction Performed necessary maintenance Line 7 SO2 SV151 11/23/2020 08:00:00 11/23/2020 08:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 08:00:00 11/29/2020 08:59:00 60 Excess Drift Primary Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 08:00:00 11/29/2020 08:59:00 60 Excess Drift Primary Performed necessary maintenance | LINE / | 302 | 34191 | 1 1108/2020 23.00.00 | 11/08/2020 23.38.00 | UU | Automatic Calibration | maintenance |
| Line 7 SO2 SV151 11/21/2020 08:00:00 11/21/2020 09:59:00 120 Primary Analyzer Malfunction Performed necessary maintenance Line 7 SO2 SV151 11/23/2020 08:00:00 11/23/2020 08:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 08:00:00 11/29/2020 08:59:00 60 Excess Drift Primary Performed necessary Performed necessary | Line 7 | SO2 | SV151 | 11/21/2020 07:00:00 | 11/21/2020 07:59:00 | 60 | Automatic Calibration | |
| Line 7 SO2 SV151 11/29/2020 08:00:00 11/29/2020 08:59:00 60 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Performed necessary maintenance Performed necessary maintenance Performed necessary | Line 7 | SO2 | SV151 | 11/21/2020 08:00:00 | 11/21/2020 00:50:00 | 120 | | Performed necessary |
| Line 7 SO2 SV151 11/29/2020 08:00:00 11/29/2020 08:59:00 60 Automatic Calibration maintenance Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 08:00:00 11/29/2020 08:59:00 60 Excess Drift Primary Performed necessary | | | | | | 120 | Malfunction | |
| Line 7 SO2 SV151 11/29/2020 06:00:00 11/29/2020 07:59:00 120 Automatic Calibration Performed necessary maintenance Line 7 SO2 SV151 11/29/2020 08:00:00 11/29/2020 08:59:00 60 Excess Drift Primary Performed necessary | Line 7 | SO2 | SV151 | 11/23/2020 08:00:00 | 11/23/2020 08:59:00 | 60 | Automatic Calibration | , |
| Line 7 SO2 SV151 11/29/2020 08:00:00 11/29/2020 08:59:00 60 Excess Drift Primary Performed necessary | Line 7 | SO2 | SV151 | 11/29/2020 06:00:00 | 11/29/2020 07:59:00 | 120 | Automatic Calibration | Performed necessary |
| | | | | | | | | Performed necessary |
| | Line 7 | SO2 | SV151 | 11/29/2020 08:00:00 | 11/29/2020 08:59:00 | 60 | | |

| 3a) | 3b) | 3c) | 3d) | 3e) | 3f) | 3g) | 3h) |
|----------------------|--|-------------------------------------|--|----------------------------------|--------------------------------------|---|--|
| Monitor ID Number | Pollutant or parameter monitored | Emission Unit Being Monitored | Beginning Date and Time of Downtime | End Date and Time of Downtime | Duration of Downtime (minutes) | Reason for Monitor Downtime (clarifying comments) | Corrective ActionTaken (clarifying comments) |
| Line 7 | SO2 | SV151 | 11/29/2020 09:00:00 | 11/29/2020 09:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 7 | SO2 | SV151 | 12/01/2020 00:00:00 | 12/01/2020 00:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 7 | SO2 | SV151 | 12/01/2020 06:00:00 | 12/01/2020 07:59:00 | 120 | Automatic Calibration | Performed necessary maintenance |
| Line 7 | SO2 | SV151 | 12/07/2020 09:00:00 | 12/07/2020 09:59:00 | 60 | Automatic Calibration | Performed necessary maintenance |
| Line 7 | SO2 | SV151 | 12/10/2020 06:00:00 | 12/10/2020 07:59:00 | 120 | Automatic Calibration | Performed necessary maintenance |
| | | | | | ~~~ | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | 3i) Tot | al duration of downtime: | 259 | hours | |

4) Duration of Excess Emissions: Provide the following information regarding each individual excess emission identified by a monitor. Make a separate table for each monitor, as needed.

| 4a) | 4b) | 4c) | 4d) | 4e) | 4f) | 4g) | 4h) | 4i) | 4j) | 4k) |
|----------|---------|--------------|--------------|--------------|------------|----------------------------|---------------------------|-------------|-------------|-------------------|
| Emission | Monitor | Pollutant or | Beginning | End Date | Limit and | Highest | Duration of | Total | Cause of EE | Corrective Action |
| Unit ID | ID | Parameter | Date and | and Time | Averaging | Reading of | Exempt EE | Duration of | (clarifying | Taken (clarifying |
| Number | Number | Monitored | Time of EE | of EE | Period | EE with Units | (include these | All EE | comments) | comments) |
| | | | | | | (example: 5 lb/hr, etc) | entries as part of 4i) | | | |
| SV-103 | MR 001 | Nox/SO2 | N/A | N/A | N/A | N/A | 0 | 0 | N/A | N/A |
| SV-118 | MR 002 | Nox/SO2 | N/A | N/A | N/A | N/A | 0 | 0 | N/A | N/A |
| SV-127 | MR 003 | Nox/SO2 | N/A | N/A | N/A | N/A | 0 | 0 | N/A | N/A |
| SV-144 | MR 004 | Nox/SO2 | N/A | N/A | N/A | N/A | 0 | 0 | N/A | N/A |
| SV-151 | MR 005 | Nox/SO2 | N/A | N/A | N/A | N/A | 0 | 0 | N/A | N/A |
| | н | 4l) Cur | nulative Dur | ation of Exe | mnf Fycess | Emissions: | | 0 | 4m) Cumulat | five Total |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|-------------------------|--|--|--|------------------------------------|---|---|---|--|--|
| Monitor ID number | Emission Unit Required to be Monitored | Pollutant and Limit Required to be Monitored | Beginning Date and Time of Bypass Period | End date and time of bypass period | Duration of monitor bypass (minutes) | Was P.C.E. operating during bypass period? | Duration of allowable monitor bypass | Reason for monitor bypass (clarifying comments) | Corrective action taken (clarifying comments) |
| Line 3 | SV103 | NOx/SO2 | 10/8/20 8:39 | 10/8/20 10:03 | 84 | YES | 84 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/15/20 7:56 | 10/15/20 10:11 | 134 | YES | 134 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/20/20 21:15 | 10/20/20 22:30 | 75 | YES | 75 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/20/20 22:30 | 10/20/20 22:59 | 29 | YES | 29 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/21/20 22:59 | 10/22/20 6:30 | 451 | YES | 451 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/22/20 6:30 | 10/22/20 14:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/22/20 14:30 | 10/22/20 16:50 | 140 | YES | 140 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/22/20 17:03 | 10/22/20 21:36 | 273 | YES | 273 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/23/20 1:30 | 10/23/20 2:28 | 58 | YES | 58 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/23/20 8:41 | 10/23/20 9:44 | 63 | YES | 63 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/23/20 9:48 | 10/23/20 9:59 | 11 | YES | 11 | Bypass necessary to protect plant equipment, | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/23/20 10:59 | 10/23/20 12:58 | 119 | YES | 119 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/23/20 13:05 | 10/23/20 14:30 | 85 | YES | 85 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/23/20 14:30 | 10/23/20 22:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/23/20 22:30 | 10/24/20 6:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/24/20 6:30 | 10/24/20 14:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/24/20 14:30 | 10/24/20 19:43 | 313 | YES | 313 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/24/20 19:59 | 10/24/20 22:30 | 151 | YES | 151 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 10/24/20 22:30 | 10/25/20 0:11 | 101 | YES | 101 | Bypass necessary to protect plant equipment. | N/A |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| Line 3 SV103 NOx/SO2 10/25/20 0:52 10/25/20 0:12 75 YES 66 Protect plant captionent N/A | 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|--|--|---------------|----------------|----------------|----------------|-----------|-------------|-------------|---------------------|--------------|
| Drumber Chartest color Chartest Required to be Monitored Wypass Period Wypass Period Wypass Period Wypass Period Wypass Clarifying Cl | Monitor | Emignion Unit | | Posinning Data | End data and | | | Duration of | Doggon for monitor | |
| Line 3 SV103 NOw/SO2 10/25/20 2:44 10/25/20 5:55 70 YES 75 Bypass necessary to protect plant equipment. N/A equipment. N | | | | | | | | | | action taken |
| Line 3 SV103 NOw/SO2 10/25/20 0:52 10/25/20 1:58 66 YES 66 eligible eligibl | i 1 | | | | | bypass | | | | |
| Line 3 SV103 NOx/SO2 10/25/20 0:52 10/25/20 1:58 66 YES 66 protect plant equipment N/A equipment N/A | number | Worldored | to be wormored | Dypass renou | period | (minutes) | period? | bypass | | comments) |
| Line 3 SV103 NOx/SO2 10/25/20 4:57 10/25/20 6:12 75 YES 70 Expanse essays to protect plant equipment. Sypass necessary to protect plant equipment. N/A equipment. SV103 NOx/SO2 10/25/20 6:30 10/25/20 8:19 109 YES 109 Expanse necessary to protect plant equipment. N/A equipment. SV103 NOx/SO2 11/17/20 22:30 11/17/20 23:59 89 YES 89 Expanse necessary to protect plant equipment. SV103 NOx/SO2 11/18/20 8:59 11/18/20 14:30 331 YES 331 Expanse necessary to protect plant equipment. SV103 NOx/SO2 11/18/20 14:30 11/18/20 14:30 331 YES 331 Expanse necessary to protect plant equipment. SV103 NOx/SO2 11/18/20 14:30 11/18/20 14:30 331 YES 331 Expanse necessary to protect plant equipment. SV103 NOx/SO2 11/18/20 14:30 11/18/20 20:14 344 YES 344 Expanse necessary to protect plant equipment. SV103 NOx/SO2 11/18/20 16:55 11/19/20 19:12 137 YES 137 Expanse necessary to protect plant equipment. SV103 NOx/SO2 11/18/20 3:14 11/23/20 3:31 16 YES 16 Expanse necessary to protect plant equipment. SV103 NOx/SO2 11/18/20 3:14 11/23/20 3:31 16 YES 16 Expanse necessary to protect plant equipment. SV103 NOx/SO2 12/12/20 7:57 12/1/20 8:58 61 YES 61 Expanse necessary to protect plant equipment. SV103 NOx/SO2 12/1/20 7:57 12/1/20 8:58 61 YES 61 Expanse necessary to protect plant equipment. SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 Expanse necessary to protect plant equipment. SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 Expanse necessary to protect plant equipment. SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 Expanse necessary to protect plant equipment. SV103 NOx/SO2 12/17/20 8:59 10 YES 10 Expanse necessary to protect plant equipment. SV103 NOx/SO2 12/17/20 9:17 12/17/20 8:59 10 YES 10 Expanse necessary to protect plant equipment. SV103 NOx/SO2 12/17/20 9:17 12/17/20 22:30 150 YES 10 Expanse necessary to protect plant equipment. SV103 NOx/SO2 12/17/20 9:17 12/17/20 22:30 150 YES 10 Expanse protect plant equipment. SV103 NOx/SO2 12/17/20 20:00 12/17/20 22:30 150 YES 1050 Protect plant equipment. SV103 NOx/SO2 12/17/ | | | | | | | | | Bypass necessary to | |
| Line 3 SV103 NOx/SO2 10/25/20 2:44 10/25/20 3:53 70 YES 70 protect plant equipment. Line 3 SV103 NOx/SO2 10/25/20 4:57 10/25/20 6:12 75 YES 75 reprotect plant equipment. Line 3 SV103 NOx/SO2 10/25/20 6:30 10/25/20 8:19 109 YES 109 protect plant equipment. Bypass necessary to protect plant equipment. System of the protect plant equipment. Line 3 SV103 NOx/SO2 11/17/20 22:30 11/17/20 23:59 89 YES 89 Protect plant equipment. Line 3 SV103 NOx/SO2 11/18/20 8:59 11/18/20 14:30 331 YES 331 protect plant equipment. Line 3 SV103 NOx/SO2 11/18/20 14:30 11/18/20 14:30 331 YES 331 protect plant equipment. Line 3 SV103 NOx/SO2 11/18/20 16:55 11/19/20 19:12 137 YES 137 Protect plant equipment. Line 3 SV103 NOx/SO2 11/18/20 16:55 11/19/20 19:12 137 YES 137 Protect plant equipment. Line 3 SV103 NOx/SO2 11/23/20 3:14 11/23/20 3:31 16 YES 16 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 11/23/20 3:14 11/23/20 3:31 16 YES 16 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 7:57 12/1/20 8:58 61 YES 61 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 3:34 12/1/20 4:12 38 YES 38 protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 8:50 12/17/20 8:59 10 YES 10 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 Bypass necessary to protect plant equipment. Sypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 Bypass necessary to protect plant equipment. Sypass necessary to protect plant equipment. N/A equipment. Sypass necessary to protect plant equipment. N/A equipment. Sypass necessary to protect plant equipment. Sypass necessary to protect plant equipment. N/A equipment. Sypass necessary to protect plant equipment. Sypass necessar | Line 3 | SV103 | NOx/SO2 | 10/25/20 0:52 | 10/25/20 1:58 | 66 | YES | 66 | protect plant | N/A |
| Line 3 SV103 NOx/SO2 10/25/20 2:44 10/25/20 3:53 70 YES 70 protect plant equipment. Line 3 SV103 NOx/SO2 10/25/20 4:57 10/25/20 6:12 75 YES 75 reprotect plant equipment. Line 3 SV103 NOx/SO2 10/25/20 6:30 10/25/20 8:19 109 YES 109 protect plant equipment. Bypass necessary to protect plant equipment. System of the protect plant equipment. Line 3 SV103 NOx/SO2 11/17/20 22:30 11/17/20 23:59 89 YES 89 Protect plant equipment. Line 3 SV103 NOx/SO2 11/18/20 8:59 11/18/20 14:30 331 YES 331 protect plant equipment. Line 3 SV103 NOx/SO2 11/18/20 14:30 11/18/20 14:30 331 YES 331 protect plant equipment. Line 3 SV103 NOx/SO2 11/18/20 16:55 11/19/20 19:12 137 YES 137 Protect plant equipment. Line 3 SV103 NOx/SO2 11/18/20 16:55 11/19/20 19:12 137 YES 137 Protect plant equipment. Line 3 SV103 NOx/SO2 11/23/20 3:14 11/23/20 3:31 16 YES 16 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 11/23/20 3:14 11/23/20 3:31 16 YES 16 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 7:57 12/1/20 8:58 61 YES 61 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 3:34 12/1/20 4:12 38 YES 38 protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 8:50 12/17/20 8:59 10 YES 10 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 Bypass necessary to protect plant equipment. Sypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 Bypass necessary to protect plant equipment. Sypass necessary to protect plant equipment. N/A equipment. Sypass necessary to protect plant equipment. N/A equipment. Sypass necessary to protect plant equipment. Sypass necessary to protect plant equipment. N/A equipment. Sypass necessary to protect plant equipment. Sypass necessar | | | | | | | | | equipment. | |
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| Line 3 SV103 NOx/SO2 11/18/20 14:30 11/18/20 20:14 344 YES 344 protect plant equipment. N/A equipment. | | | | | | | | | | |
| Line 3 SV103 NOx/SO2 11/19/20 16:55 11/19/20 19:12 137 YES 137 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 11/23/20 3:14 11/23/20 3:31 16 YES 16 protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 7:57 12/1/20 8:58 61 YES 61 protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 3:34 12/7/20 4:12 38 YES 38 protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 3:34 12/7/20 4:12 38 YES 38 protect plant equipment. Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 protect plant equipment. Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:59 10 YES 10 protect plant equipment. Bypass necessary to protect plant equipment. | 1 ' | | | | | | | | | |
| Line 3 SV103 NOx/SO2 11/19/20 16:55 11/19/20 19:12 137 YES 137 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 11/23/20 3:14 11/23/20 3:31 16 YES 16 protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 7:57 12/1/20 8:58 61 YES 61 protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 3:34 12/7/20 4:12 38 YES 38 protessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 3:34 12/7/20 4:12 38 YES 38 protessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Bypass necessary to protect plant equipment. | Line 3 | SV103 | NOx/SO2 | 11/18/20 14:30 | 11/18/20 20:14 | 344 | YES | 344 | | N/A |
| Line 3 SV103 NOx/SO2 11/19/20 16:55 11/19/20 19:12 137 YES 137 protect plant equipment. Line 3 SV103 NOx/SO2 11/23/20 3:14 11/23/20 3:31 16 YES 16 protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 7:57 12/1/20 8:58 61 YES 61 protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 3:34 12/1/20 4:12 38 YES 38 protessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 3:34 12/1/20 4:12 38 YES 38 protect plant equipment. Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 protect plant equipment. Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Bypass necessary to protect plant equipment. N/A equipment. N/A equipment. | | | | | | | | | | |
| Line 3 SV103 NOx/SO2 11/23/20 3:14 11/23/20 3:31 16 YES 16 Bypass necessary to protect plant equipment. | | | | | | | | | Bypass necessary to | |
| Line 3 SV103 NOx/SO2 11/23/20 3:14 11/23/20 3:31 16 YES 16 Bypass necessary to protect plant equipment. | Line 3 | SV103 | NOx/SO2 | 11/19/20 16:55 | 11/19/20 19:12 | 137 | YES | 137 | protect plant | N/A |
| Line 3 SV103 NOx/SO2 11/23/20 3:14 11/23/20 3:31 16 YES 16 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 7:57 12/1/20 8:58 61 YES 61 protect plant equipment. Line 3 SV103 NOx/SO2 12/1/20 3:34 12/7/20 4:12 38 YES 38 protect plant equipment. Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:59 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:59 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Bypass necessary to protect plant equipment. | | | | | | | | | | |
| Line 3 SV103 NOx/SO2 11/23/20 3:14 11/23/20 3:31 16 YES 16 protect plant equipment. Bypass necessary to protect plant equipment. Bypass necessary to protect plant equipment. SV103 NOx/SO2 12/1/20 3:34 12/7/20 4:12 38 YES 38 protect plant equipment. Bypass necessary to protect plant equipment. N/A equipment. Bypass necessary to protect plant equipment. Bypass necessary to Bypass necessary | | | | | | | | | | |
| Line 3 SV103 NOx/SO2 12/1/20 7:57 12/1/20 8:58 61 YES 61 Bypass necessary to protect plant equipment. | Line 3 | SV103 | NOx/SO2 | 11/23/20 3:14 | 11/23/20 3:31 | 16 | YES | 16 | | N/A |
| Line 3 SV103 NOx/SO2 12/1/20 7:57 12/1/20 8:58 61 YES 61 protect plant equipment. Sypass necessary to protect plant equipment. Bypass necessary to protect plant equipment. SV103 NOx/SO2 12/1/20 3:34 12/1/20 4:12 38 YES 38 protect plant equipment. Sypass necessary to protect plant equipment. Bypass necessary to protect plant equipment. Sypass necessary to | Dino | D 1 103 | 1102502 | 11/25/20 5.11 | 11/25/20 5.51 | 10 | 135 | 10 | | 1011 |
| Line 3 SV103 NOx/SO2 12/1/20 7:57 12/1/20 8:58 61 YES 61 protect plant equipment. Line 3 SV103 NOx/SO2 12/7/20 3:34 12/7/20 4:12 38 YES 38 protect plant equipment. Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 protect plant equipment. Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Bypass necessary to protect plant equipment. | <u> </u> | | | | | | | | | |
| Line 3 SV103 NOx/SO2 12/7/20 3:34 12/7/20 4:12 38 YES 38 protect plant equipment. | Time 2 | 67/102 | NO/903 | 10/1/00 7.57 | 10/1/00 0.50 | 61 | VEC | 61 | | 7.7/4 |
| Line 3 SV103 NOx/SO2 12/7/20 3:34 12/7/20 4:12 38 YES 38 protect plant equipment. N/A equipment. | Line 3 | 3 7 103 | NOX/SU2 | 12/1/20 7:37 | 12/1/20 8:38 | 91 | IES | 01 | | N/A |
| Line 3 SV103 NOx/SO2 12/7/20 3:34 12/7/20 4:12 38 YES 38 protect plant equipment. Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Bypass necessary to protect plant equipment. | <u> </u> | <u> </u> | | | | | | | | |
| Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 Protect plant equipment. | · ' | | | | | | | | | |
| Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Bypass necessary to protect plant equipment. | Line 3 | SV103 | NOx/SO2 | 12/7/20 3:34 | 12/7/20 4:12 | 38 | YES | 38 | protect plant | N/A |
| Line 3 SV103 NOx/SO2 12/16/20 12:42 12/16/20 13:24 42 YES 42 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 20:00 12/17/20 22:30 150 YES 150 protect plant equipment. | | | | | | | | | equipment. | |
| Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 Protect plant equipment. | _ | | | | | | | | Bypass necessary to | |
| Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 Protect plant equipment. | Line 3 | SV103 | NOx/SO2 | 12/16/20 12:42 | 12/16/20 13:24 | 42 | YES | 42 | protect plant | N/A |
| Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 20:00 12/17/20 22:30 150 YES 150 protect plant equipment. N/A equipment. Bypass necessary to protect plant equipment. Bypass necessary to protect plant equipment. N/A equipment. | | | | | | | | | | |
| Line 3 SV103 NOx/SO2 12/17/20 8:50 12/17/20 8:59 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 20:00 12/17/20 22:30 150 YES 150 protect plant equipment. N/A Bypass necessary to protect plant equipment. Bypass necessary to protect plant equipment. | | | | | | | | | | |
| Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 Bypass necessary to protect plant equipment. | Line 3 | SV103 | NOv/802 | 12/17/20 8:50 | 12/17/20 8:59 | 10 | VES | 10 | | NI/A |
| Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 Bypass necessary to protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 20:00 12/17/20 22:30 150 YES 150 protect plant equipment. N/A equipment. | Line 3 | 5,105 | NOMBOZ | 12/11/20 0.50 | 12/11/20 0.57 | 10 | 120 | 10 | | 14/73 |
| Line 3 SV103 NOx/SO2 12/17/20 9:17 12/17/20 9:27 10 YES 10 protect plant equipment. Line 3 SV103 NOx/SO2 12/17/20 20:00 12/17/20 22:30 150 YES 150 protect plant equipment. N/A equipment. N/A equipment. | | | | | | | | | | |
| Line 3 SV103 NOx/SO2 12/17/20 20:00 12/17/20 22:30 150 YES 150 protect plant equipment. A | 7. 0 | 03.11.02 | 270 /000 | 10/10/00 0 10 | 10/17/00 0 07 | 10 | xma. | 10 | 7. | NT/4 |
| Line 3 SV103 NOx/SO2 12/17/20 20:00 12/17/20 22:30 150 YES 150 Bypass necessary to protect plant equipment. | Line 3 | 8 7 103 | NOX/SO2 | 12/11/20 9:17 | 12/17/20 9:27 | 10 | YES | 10 | | N/A |
| Line 3 SV103 NOx/SO2 12/17/20 20:00 12/17/20 22:30 150 YES 150 protect plant equipment. | | | | | | | | | | |
| equipment. | | | | | | | | | Bypass necessary to | |
| | Line 3 | SV103 | NOx/SO2 | 12/17/20 20:00 | 12/17/20 22:30 | 150 | YES | 150 | protect plant | N/A |
| | | | | | | | | | | |
| Bypass necessary to | | | | | | | | | Bypass necessary to | |
| Line 3 SV103 NOx/SO2 12/17/20 22:30 12/17/20 23:16 46 YES 46 protect plant N/A | Line 3 | SV103 | NOx/SO2 | 12/17/20 22:30 | 12/17/20 23:16 | 46 | YES | 46 | | N/A |
| Estic 5 0 7 705 170 M 502 12/17/20 22/30 12/17/20 23/10 40 11/20 40 protect plant 17/17 equipment. | Late 5 | 5,105 | 1.0.000 | 12,1,120,22,30 | 12,17,20 23,10 | 1 | | 'ઁ | | 1,111 |
| Bypass necessary to | | | | | | | | | | |
| | T 4 2 | 07/102 | NO. /902 | 10/17/00 02:55 | 10/10/00 4-00 | 252 | v.ca | 252 | | NT/4 |
| Line 3 SV103 NOx/SO2 12/17/20 23:55 12/18/20 4:08 253 YES 253 protect plant N/A | Line 3 | 2 4 103 | NOX/SO2 | 12/1//20 23:55 | 12/18/20 4:08 | 203 | TES | 253 | | N/A |
| equipment. | | | ļ | | | | | | | |
| Bypass necessary to | | | | 1 | | | | | | |
| Line 3 SV103 NOx/SO2 12/18/20 4:37 12/18/20 6:30 113 YES 113 protect plant N/A | Line 3 | SV103 | NOx/SO2 | 12/18/20 4:37 | 12/18/20 6:30 | 113 | YES | 113 | protect plant | N/A |
| equipment. | | | | | | | | | | |
| Bypass necessary to | | | | - | | | | | | |
| Line 3 SV103 NOx/SO2 12/18/20 6:30 12/18/20 8:17 107 YES 107 protect plant N/A | Line 3 | SV103 | NOx/802 | 12/18/20 6:30 | 12/18/20 8-17 | 107 | YES | 107 | | N/A |
| equipment, | , | 5,105 | 100002 | 12120120 0120 | 124 10120 0.11 | 1 10/ | 1 | 10, | | 1 1/2 1 |
| equipment. | | .l | 1 | <u> </u> | <u> </u> | l | | L | ечатритень, | L |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|-------------------------|--|--|--|--|---|---|---|---|---|
| Monitor ID number | Emission Unit Required to be Monitored | Pollutant and Limit Required to be Monitored | Beginning Date and Time of Bypass Period | End date and time of bypass period | Duration of monitor bypass (minutes) | Was P.C.E. operating during bypass period? | Duration of allowable monitor bypass | Reason for monitor bypass (clarifying comments) | Corrective action taken (clarifying comments) |
| Line 3 | SV103 | NOx/SO2 | 12/23/20 20:18 | 12/23/20 20:40 | 22 | YES | 22 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 12/25/20 5:02 | 12/25/20 5:32 | 30 | YES | 30 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 12/26/20 10:59 | 12/26/20 14:30 | 211 | YES | 211 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 12/26/20 14:30 | 12/26/20 21:10 | 400 | YES | 400 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 12/27/20 11:41 | 12/27/20 11:56 | 16 | YES | 16 | Bypass necessary to protect plant equipment. | N/A |
| Line 3 | SV103 | NOx/SO2 | 12/28/20 10:20 | 12/28/20 10:48 | 28 | YES | 28 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/6/20 8:03 | 10/6/20 8:13 | 9 | YES | 9 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/7/20 8:13 | 10/7/20 8:25 | 12 | YES | 12 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/8/20 8:44 | 10/8/20 11:38 | 174 | YES | 174 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/8/20 11:43 | 10/8/20 12:08 | 26 | YES | 26 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/9/20 7:56 | 10/9/20 9:00 | 64 | YES | 64 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/13/20 22:31 | 10/13/20 22:42 | 11 | YES | 11 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/14/20 23:53 | 10/15/20 0:00 | 8 | YES | 8 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/20/20 13:01 | 10/20/20 13:41 | 40 | YES | 40 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/20/20 13:47 | 10/20/20 13:56 | 9 | YES | 9 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/21/20 1:06 | 10/21/20 2:34 | 88 | YES | 88 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/21/20 6:25 | 10/21/20 6:30 | 5 | YES | 5 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/21/20 6:30 | 10/21/20 14:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/21/20 14:30 | 10/21/20 22:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|-------------------------|--|--|--|------------------------------------|---|---|---|--|--|
| Monitor ID number | Emission Unit Required to be Monitored | Pollutant and Limit Required to be Monitored | Beginning Date and Time of Bypass Period | End date and time of bypass period | Duration of monitor bypass (minutes) | Was P.C.E. operating during bypass period? | Duration of allowable monitor bypass | Reason for monitor bypass (clarifying comments) | Corrective action taken (clarifying comments) |
| Line 4 | SV118 | NOx/SO2 | 10/21/20 22:30 | 10/22/20 2:48 | 258 | YES | 258 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/22/20 13:22 | 10/22/20 14:14 | 53 | YES | 53 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/23/20 7:33 | 10/23/20 14:30 | 417 | YES | 417 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/23/20 14:30 | 10/23/20 22:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/23/20 22:30 | 10/24/20 0:25 | 115 | YES | 115 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/24/20 1:12 | 10/24/20 1:22 | 10 | YES | 10 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/24/20 1:28 | 10/24/20 1:35 | 7 | YES | 7 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/26/20 15:13 | 10/26/20 16:13 | 60 | YES | 60 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/26/20 16:19 | 10/26/20 16:22 | 3 | YES | 3 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/26/20 16:42 | 10/26/20 17:56 | 74 | YES | 74 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/27/20 13:27 | 10/27/20 14:30 | 63 | YES | 63 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/27/20 14:30 | 10/27/20 14:48 | 18 | YES | 18 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/30/20 0:29 | 10/30/20 3:33 | 184 | YES | 184 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/30/20 5:10 | 10/30/20 6:30 | 80 | YES | 80 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/30/20 6:30 | 10/30/20 7:16 | 46 | YES | 46 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/31/20 12:39 | 10/31/20 13:26 | 47 | YES | 47 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 10/31/20 13:30 | 10/31/20 13:33 | 3 | YES | 3 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/1/20 1:30 | 11/1/20 4:39 | 189 | YES | 189 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/1/20 22:29 | 11/1/20 22:30 | 1 | YES | 1 | Bypass necessary to protect plant equipment. | N/A |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|-------------------------|--|--|--|------------------------------------|---|---|---|--|--|
| Monitor ID number | Emission Unit Required to be Monitored | Pollutant and Limit Required to be Monitored | Beginning Date and Time of Bypass Period | End date and time of bypass period | Duration of monitor bypass (minutes) | Was P.C.E. operating during bypass period? | Duration of allowable monitor bypass | Reason for monitor bypass (clarifying comments) | Corrective action taken (clarifying comments) |
| Line 4 | SV118 | NOx/SO2 | 11/1/20 22:30 | 11/1/20 22:59 | 29 | YES | . 29 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/4/20 17:59 | 11/4/20 22:30 | 271 | YES | 271 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/4/20 22:30 | 11/5/20 6:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/5/20 6:30 | 11/5/20 12:51 | 381 | YES | 381 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/5/20 13:26 | 11/5/20 14:11 | 45 | YES | 45 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/5/20 18:39 | 11/5/20 19:47 | 68 | YES | 68 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/5/20 22:41 | 11/5/20 22:57 | 16 | YES | 16 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/5/20 23:25 | 11/6/20 0:45 | 80 | YES | 80 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/6/20 0:45 | 11/6/20 0:56 | 11 | YES | 11 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/11/20 9:19 | 11/11/20 12:30 | 190 | YES | 190 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/17/20 8:16 | 11/17/20 11:10 | 174 | YES | 174 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/26/20 6:37 | 11/26/20 7:19 | 42 | YES | 42 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/30/20 7:14 | 11/30/20 7:22 | 9 | YES | 9 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/30/20 7:33 | 11/30/20 7:42 | 9 | YES | 9 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 11/30/20 7:48 | 11/30/20 8:01 | 13 | YES | 13 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/4/20 9:51 | 12/4/20 14:09 | 258 | YES | 258 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/4/20 22:26 | 12/4/20 22:30 | 4 | YES | 4 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/4/20 22:30 | 12/5/20 2:38 | 248 | YES | 248 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/7/20 13:27 | 12/7/20 13:59 | 32 | YES | 32 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/8/20 20:59 | 12/8/20 22:30 | 91 | YES | 91 | Bypass necessary to protect plant equipment. | N/A |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|-------------------------|--|--|--|------------------------------------|---|---|--------------------------------------|--|--|
| Monitor ID number | Emission Unit Required to be Monitored | Pollutant and Limit Required to be Monitored | Beginning Date and Time of Bypass Period | End date and time of bypass period | Duration of monitor bypass (minutes) | Was P.C.E, operating during bypass period? | Duration of allowable monitor bypass | Reason for monitor bypass (clarifying comments) | Corrective action taken (clarifying comments) |
| Line 4 | SV118 | NOx/SO2 | 12/8/20 22:30 | 12/9/20 6:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/9/20 6:30 | 12/9/20 14:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/9/20 14:30 | 12/9/20 16:43 | 133 | YES | 133 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/9/20 17;22 | 12/9/20 20:50 | 208 | YES | 208 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/9/20 21:00 | 12/9/20 22:13 | 72 | YES | 72 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/19/20 5:58 | 12/19/20 6:08 | 10 | YES | 10 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/26/20 1:42 | 12/26/20 6:30 | 288 | YES | 288 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/26/20 6:30 | 12/26/20 14:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 4 | SV118 | NOx/SO2 | 12/26/20 14:30 | 12/26/20 16:46 | 136 | YES | 136 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/1/20 12:30 | 10/1/20 13:51 | 80 | YES | 80 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/3/20 20:21 | 10/3/20 20:54 | 32 | YES | 32 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/4/20 5:00 | 10/4/20 5:10 | 9 | YES | 9 . | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/7/20 10:16 | 10/7/20 11:43 | 87 | YES | 87 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/8/20 8:37 | 10/8/20 10:26 | 109 | YES | 109 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/14/20 6:36 | 10/14/20 10:08 | 212 | YES | 212 | Bypass necessary to protect plant equipment. | N/A |
| · Line 5 | SV127 | NOx/SO2 | 10/14/20 20:07 | 10/14/20 20:11 | 4 | YES | 4 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/14/20 20:14 | 10/14/20 20:16 | 2 | YES | 2 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/20/20 5:32 | 10/20/20 6:01 | 29 | YES | 29 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/20/20 6:38 | 10/20/20 7:25 | 48 | YES | 48 | Bypass necessary to protect plant equipment, | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/20/20 9:17 | 10/20/20 9:30 | 12 | YES | 12 | Bypass necessary to protect plant equipment. | N/A |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|-------------------------|--|--|--|--|---|---|---|--|--|
| Monitor ID number | Emission Unit Required to be Monitored | Pollutant and Limit Required to be Monitored | Beginning Date and Time of Bypass Period | End date and time of bypass period | Duration of monitor bypass (minutes) | Was P.C.E. operating during bypass period? | Duration of allowable monitor bypass | Reason for monitor bypass (clarifying comments) | Corrective action taken (clarifying comments) |
| Line 5 | SV127 | NOx/SO2 | 10/20/20 11:02 | 10/20/20 11:32 | 30 | YES | 30 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/21/20 0:11 | 10/21/20 1:53 | 102 | YES | 102 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/21/20 7:33 | 10/21/20 10:03 | 150 | YES | 150 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/23/20 23:05 | 10/24/20 0:11 | 66 | YES | 66 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 10/26/20 15:14 | 10/26/20 15:57 | 43 | YES | 43 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 11/6/20 4:04 | 11/6/20 4:41 | 37 | YES | 37 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 11/11/20 9:24 | 11/11/20 11:59 | 156 | YES | 156 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 11/12/20 2:09 | 11/12/20 3:23 | 74 | YES | 74 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 11/12/20 8:01 | 11/12/20 9:17 | 76 | YES | 76 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 11/13/20 9:25 | 11/13/20 11:06 | 102 | YES | 102 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 11/18/20 7:37 | 11/18/20 8:01 | 24 | YES | 24 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 12/4/20 22:32 | 12/5/20 1:46 | 194 | YES | 194 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 12/7/20 22:26 | 12/7/20 22:30 | 4 | YES | 4 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 12/7/20 22:30 | 12/7/20 22:59 | 29 | YES | 29 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 12/8/20 11:59 | 12/8/20 14:30 | 151 | YES | 151 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 12/8/20 14:30 | 12/8/20 22:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 12/8/20 22:30 | 12/9/20 0:16 | 106 | YES | 106 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 12/9/20 1:13 | 12/9/20 4:12 | 178 | YES | 178 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 12/14/20 8:06 | 12/14/20 8:49 | 44 | YES | 44 | Bypass necessary to protect plant equipment. | N/A |
| Line 5 | SV127 | NOx/SO2 | 12/15/20 4:17 | 12/15/20 4:46 | 29 | YES | 29 | Bypass necessary to protect plant equipment. | N/A |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| Montage | 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|--|--|---------------|---------------|----------------|----------------------|-----------|----------|--------|---------------------------------------|---------------------------------------|
| D | Monitor | Emission Unit | Pollutant and | Beginning Date | End date and | | | | Reason for monitor | |
| Line 6 SV127 | | | | | | | | | | |
| Line 5 | number | | | | | | | | | , |
| Line 5 | | | | | <u>'</u> | (minutes) | репод? | bypass | , | comments) |
| Line 5 SV127 NOwSO2 12/28/20 10:00 12/28/20 11:35 95 YES 95 Bypase necessary to protect plant outprent. NA equipment. SV127 NOwSO2 12/28/20 12:11 12/28/20 12:33 22 YES 22 bypase necessary to protect plant outprent. NA equipment. SV127 NOwSO2 12/28/20 13:26 12/28/20 14:20 64 YES 54 Bypase necessary to protect plant outprent. NA equipment. SV144 NOwSO2 10/3/20 2:21 10/3/20 3:58 97 YES 97 Bypase necessary to protect plant outprent. NA equipment. SV144 NOwSO2 10/3/20 4:35 10/3/20 8:25 29 YES 29 Bypase necessary to protect plant outprent. NA equipment. SV144 NOwSO2 10/3/20 4:35 10/3/20 8:25 29 YES 29 Bypase necessary to protect plant outprent. NA equipment. SV144 NOwSO2 10/4/20 16:34 18 YES 18 Equipment. SV144 NOwSO2 10/4/20 16:34 16 YES 18 Equipment. SV144 NOwSO2 10/4/20 16:45 10/4/20 16:45 37 YES 37 bypase necessary to protect plant outprent. NA equipment. SV144 NOwSO2 10/4/20 16:45 10/4/20 16:45 37 YES 37 bypase necessary to protect plant outprent. SV144 NOwSO2 10/4/20 16:45 10/4/20 16:52 37 YES 37 bypase necessary to protect plant outprent. SV144 NOwSO2 10/4/20 16:45 10/4/20 16:52 37 YES 37 bypase necessary to protect plant outprent. SV144 NOwSO2 10/4/20 16:15 10/4/20 16:52 37 YES 37 bypase necessary to protect plant outprent. SV144 NOwSO2 10/4/20 16:15 10/4/20 16:52 37 YES 37 bypase necessary to protect plant outprent. SV144 NOwSO2 10/4/20 16:15 10/4/20 16:52 37 YES 37 bypase necessary to protect plant outprent. SV144 NOwSO2 10/4/20 16:15 10/4/20 16:52 37 YES 37 bypase necessary to protect plant outprent. SV144 NOwSO2 10/5/20 0:26 10/5/20 0:26 YES 26 bypase necessary to protect plant outprent. SV144 NowSO2 10/5/20 0:26 10/5/20 0:26 10/5/20 0:27 YES 35 bypase necessary to protect plant outprent. SV144 NowSO2 10/5/20 0:26 10/5/20 0:27 YES 35 bypase necessary to protect plant outprent. SV144 NowSO2 10/5/20 0:28 10/5/20 0:28 9 YES 35 bypase necessary to protect plant outprent. NA protect plant outprent. SV144 NowSO2 10/5/20 0:28 10/5/20 0:29 YES 35 bypase necessary to protect plant outprent. NA protect plant outpre | | | | | | | | | | |
| Line 5 | Line 5 | SV127 | NOx/SO2 | 12/17/20 7:59 | 12/17/20 8:26 | 27 | YES | 27 | | N/A |
| Line 6 SV127 NOwSO2 12/28/20 10:00 12/28/20 11:35 95 YES 95 equipment equipment equipment of protect plant equipment. N/A equipment is protect plant equipment. N/A equi | | | | | | | | | equipment. | |
| Line 5 SV127 NOwSO2 12/28/20 12:11 12/28/20 12:33 22 YES 22 Sypase necessary to protect plant equipment. N/A equipment. SV127 NOwSO2 12/28/20 13:26 12/28/20 14:20 54 YES 54 Sypase necessary to protect plant of protect plant o | | | | | | | | | Bypass necessary | |
| Line 6 | Line 5 | SV127 | NOx/SO2 | 12/28/20 10:00 | 12/28/20 11:35 | 95 | YES | 95 | to protect plant | N/A |
| Line 6 | | | | | | | | | equipment. | İ |
| Line 6 | | | | | | | | | Bypass necessary | · |
| Cline 5 SV127 NOWSO2 12/28/20 13:25 12/28/20 14:20 54 YES 54 Suppress necessary to protect plant equipment. N/A equipment | Line 5 | SV127 | NOx/SO2 | 12/28/20 12:11 | 12/28/20 12:33 | 22 | YES | 22 | | N/A |
| Line 6 | | | | | | | | | | |
| Line 6 SV144 NOw/SO2 10/4/20 15:17 10/4/20 15:34 18 YES 54 19 protect plant equipment. N/A equipment. SV144 NOw/SO2 10/4/20 4:55 10/4/20 5:25 29 YES 29 Sypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/4/20 15:17 10/4/20 15:34 18 YES 18 Bypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/4/20 15:17 10/4/20 15:34 18 YES 18 Bypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/4/20 16:28 10/4/20 16:43 15 YES 15 Sypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/4/20 18:15 10/4/20 18:52 37 YES 37 Sypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/4/20 18:15 10/4/20 18:52 37 YES 37 Sypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/4/20 18:15 10/4/20 18:52 37 YES 26 Sypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/6/20 0:28 10/5/20 1:18 49 YES 49 Sypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/5/20 1:18 10/5/20 1:18 49 YES 42 Sypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/5/20 1:18 10/5/20 20:32 42 YES 42 Sypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/5/20 20:30 10/5/20 20:30 35 YES 35 Sypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/5/20 20:30 10/5/20 20:30 31 YES 31 Sypase necessary to protect plant equipment. N/A equipment. SV144 NOw/SO2 10/5/20 20:30 10/5/20 20:30 35 YES 35 Sypase necessary to protect plant equipment. N/A equipment. N | | | | | | | | | | |
| Line 6 SV144 NOw/SO2 10/3/20 2:21 10/3/20 3:58 97 YES 97 Sypass necessary to protect plant equipment. N/A | Line 5 | SV127 | NOx/SO2 | 12/28/20 13:26 | 12/28/20 14:20 | 54 | YES | 54 | | N/A |
| Line 6 SV144 NOx/SO2 10/3/20 2:21 10/3/20 3:58 97 YES 97 Bypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/4/20 15:17 10/4/20 15:34 18 YES 18 Bypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/4/20 15:17 10/4/20 15:34 18 YES 18 Bypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/4/20 16:28 10/4/20 16:43 15 YES 15 Sypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/4/20 18:15 10/4/20 18:52 37 YES 37 Sypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/4/20 18:15 10/4/20 18:52 37 YES 37 Sypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/4/20 20:01 10/4/20 20:26 26 YES 26 Sypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/6/20 20:01 10/6/20 20:32 42 YES 49 Sypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/6/20 20:32 10/6/20 20:32 42 YES 42 Bypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/6/20 20:18 10/6/20 20:32 42 YES 42 Bypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/6/20 20:18 10/6/20 20:39 10/6/20 20:59 29 YES 35 Sypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/6/20 20:30 10/6/20 20:59 29 YES 54 Sypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/6/20 20:30 10/6/20 20:30 10/6/20 20:30 331 YES 331 Sypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/6/20 20:30 10/6/20 20:30 331 YES 331 Sypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/6/20 20:30 10/6/20 20:30 331 YES 331 Sypasa necessary to protect plant equipment. N/A sequence SV144 NOx/SO2 10/6/20 20:30 10/6/20 20:30 331 YES 331 Sypasa nece | Lii jo o | 37,27 | HOXOOL | 12/20/20 10:20 | 12/20/20 (1:25 | " | 120 |] | | 1477 |
| Line 6 SV144 NOx/SO2 10/3/20 2:21 10/3/20 5:25 29 YES 97 to protect plant equipment. N/A equipment. SV144 NOx/SO2 10/3/20 4:55 10/3/20 5:25 29 YES 29 Sypass necessary to protect plant equipment. N/A equipment. SV144 NOx/SO2 10/4/20 16:28 10/4/20 16:34 18 YES 18 Sypass necessary to protect plant equipment. N/A equipment. SV144 NOx/SO2 10/4/20 18:28 10/4/20 16:43 16 YES 15 Sypass necessary to protect plant equipment. N/A equipment. Sypass necessary to protect plant equipment. Sypass necessary to | | | | | | | | | ` ' | |
| Line 6 SV144 | Line | 01/1/4 | NOVICOS | 10/2/20 2-24 | 10/2/20 2-50 | 07 | VEC | 07 | ,, | NICA |
| Line 6 SV144 NOwSO2 10/3/20 4:55 10/3/20 5:25 29 YES 29 Bypass necessary to protect plant equipment. | Lille 0 | 3 144 | 1102/302 | 10/3/20 2.21 | 10/3/20 3.30 | 87 | 150 | 97 | | IW/A |
| Line 6 SV144 NOx/SO2 10/3/20 4:35 10/3/20 5:25 29 YES 29 to protect plant equipment. | | | | | | | | | | |
| Line 6 SV144 NOx/SO2 10/4/20 15:17 10/4/20 15:34 18 YES 18 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/4/20 16:28 10/4/20 16:43 15 YES 15 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/4/20 18:15 10/4/20 18:52 37 YES 37 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/4/20 18:15 10/4/20 18:52 37 YES 37 Sprass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/4/20 20:01 10/4/20 20:26 28 YES 26 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/5/20 0:26 10/5/20 1:16 49 YES 49 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/5/20 0:26 10/5/20 1:16 49 YES 49 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/5/20 19:51 10/5/20 20:32 42 YES 42 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/5/20 20:16 10/6/20 9:04 35 YES 35 Expass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 20:16 10/6/20 21:10 54 YES 54 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 20:16 10/6/20 21:10 54 YES 54 Sprass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 20:30 10/6/20 22:30 10/5/20 25:59 28 YES 29 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 22:30 10/7/20 14:30 331 YES 331 Express necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:35 10/7/20 22:30 35 YES 35 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:35 10/7/20 22:30 35 YES 35 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:35 10/7/20 22:35 6 YES 56 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:35 10/7/20 22:35 6 YES 56 Fypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:35 10/7/20 22:35 6 YES 56 Fypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:35 10/7/ | 1 | 8.44.4 | | | | | | | | |
| Line 6 SV144 NOx/SO2 10/4/20 15:17 10/4/20 15:34 18 YES 18 Sypass necessary to protect plant equipment. N/A equipment. SV144 NOx/SO2 10/4/20 16:28 10/4/20 16:43 15 YES 15 Sypass necessary to protect plant equipment. N/A equipment. SV144 NOx/SO2 10/4/20 18:15 10/4/20 18:52 37 YES 37 Sypass necessary to protect plant equipment. SV144 NOx/SO2 10/4/20 20:26 26 YES 26 Sypass necessary to protect plant equipment. Sypass necessary to protect plant equipment. N/A equipment. Sypass necessary to protect plant equipment. | Line 6 | SV144 | NOx/SO2 | 10/3/20 4:55 | 10/3/20 5:25 | 29 | YES | 29 | | N/A |
| Line 6 SV144 NOx/SO2 10/4/20 15:17 10/4/20 15:34 18 YES 18 to protect plant equipment. Line 6 SV144 NOx/SO2 10/4/20 16:28 10/4/20 16:43 15 YES 15 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/4/20 18:15 10/4/20 18:52 37 YES 37 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/4/20 0:26 10/5/20 0:26 28 YES 26 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/5/20 0:26 10/5/20 0:26 28 YES 49 to protect plant equipment. Line 6 SV144 NOx/SO2 10/5/20 0:26 10/5/20 0:32 42 YES 49 to protect plant equipment. Line 6 SV144 NOx/SO2 10/5/20 19:51 10/5/20 20:32 42 YES 42 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/5/20 19:51 10/5/20 20:32 42 YES 42 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/5/20 19:51 10/5/20 20:32 42 YES 42 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 20:16 10/6/20 9:04 35 YES 35 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 20:16 10/6/20 21:10 64 YES 54 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 20:30 10/6/20 22:59 28 YES 29 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 20:30 10/6/20 22:59 28 YES 29 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 331 YES 331 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 14:30 35 YES 35 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 22:30 35 YES 35 Bypass necessary to protect plant equipment. Bypass necessary to protect plant to protect | | | | | | | | | equipment. | |
| Equipment Equi | | | : | | | | | | Bypass necessary | |
| Line 6 SV144 NOx/SO2 10/4/20 18:28 10/4/20 18:43 15 YES 15 Bypass necessary to protect plant equipment. N/A equipment. SV144 NOx/SO2 10/4/20 18:15 10/4/20 18:52 37 YES 37 YES 37 To protect plant equipment. N/A equipment. N/A equipment. SV144 NOx/SO2 10/4/20 20:26 26 YES 26 YES 26 Pypass necessary to protect plant equipment. N/A equ | Line 6 | SV144 | NOx/SO2 | 10/4/20 15:17 | 10/4/20 15:34 | 18 | YES | 18 | to protect plant | N/A |
| Line 6 SV144 | | | | | | | | | equipment. | |
| Line 6 SV144 NOx/SO2 10/4/20 18:15 10/4/20 18:52 37 YES 37 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/4/20 20:01 10/4/20 20:26 26 YES 26 YES 26 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/5/20 0:28 10/5/20 1:16 49 YES 49 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/5/20 19:51 10/5/20 20:32 42 YES 42 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 8:28 10/6/20 9:04 35 YES 35 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 20:16 10/6/20 21:10 54 YES 54 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 20:16 10/6/20 21:10 54 YES 54 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 20:16 10/6/20 21:10 54 YES 54 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 22:30 10/6/20 22:59 29 YES 29 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 8:59 10/7/20 14:30 331 YES 331 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 438 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 438 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 12:55 10/7/20 22:30 35 YES 35 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 438 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 bypass necessary to protect plant to pro | | | | | | | | | Bypass necessary | |
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| Line 6 SV144 NOx/SO2 10/6/20 20:16 10/6/20 21:10 54 YES 54 Bypass necessary to protect plant equipment. | | | | | | | | | | |
| Line 6 SV144 NOx/SO2 10/6/20 20:16 10/6/20 21:10 54 YES 54 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 22:30 10/6/20 22:59 29 YES 29 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 8:59 10/7/20 14:30 331 YES 331 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 14:30 YES 331 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 bypass necessary to protect plant equipment. | Line 6 | SV144 | NOx/SO2 | 10/6/20 8:29 | 10/6/20 9:04 | 35 | YES | 35 | | N/A |
| Line 6 SV144 NOx/SO2 10/6/20 20:16 10/6/20 21:10 54 YES 54 to protect plant equipment. Line 6 SV144 NOx/SO2 10/6/20 22:30 10/6/20 22:59 29 YES 29 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 8:59 10/7/20 14:30 331 YES 331 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 8:59 10/7/20 14:30 331 YES 331 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. | | | | | | | | | equipment. | |
| Line 6 SV144 NOx/SO2 10/6/20 22:30 10/6/20 22:59 29 YES 29 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 8:59 10/7/20 14:30 331 YES 331 by pass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. | | | | | | | | | Bypass necessary | |
| Line 6 SV144 NOx/SO2 10/6/20 22:30 10/6/20 22:59 29 YES 29 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 8:59 10/7/20 14:30 331 YES 331 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 438 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 438 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. | Line 6 | SV144 | NOx/SO2 | 10/6/20 20:16 | 10/6/20 21:10 | 54 | YES | 54 | to protect plant | N/A |
| Line 6 SV144 NOx/SO2 10/6/20 22:30 10/6/20 22:59 29 YES 29 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 8:59 10/7/20 14:30 331 YES 331 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. | | | j | | | | | | equipment. | |
| Line 6 SV144 NOx/SO2 10/7/20 8:59 10/7/20 14:30 331 YES 331 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. | | | | | | | | | Bypass necessary | |
| Line 6 SV144 NOx/SO2 10/7/20 8:59 10/7/20 14:30 331 YES 331 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. | Line 6 | SV144 | NOx/SO2 | 10/6/20 22:30 | 10/6/20 22:59 | 29 | YES | 29 | to protect plant | N/A |
| Line 6 SV144 NOx/SO2 10/7/20 8:59 10/7/20 14:30 331 YES 331 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. | | | İ | | | | | | | |
| Line 6 SV144 NOx/SO2 10/7/20 8:59 10/7/20 14:30 331 YES 331 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 to protect plant equipment. Bypass necessary to protect plant equipment. | | | <u> </u> | | | | | | | |
| Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 Bypass necessary to protect plant equipment. | Line 6 | SV144 | NOx/SO2 | 10/7/20 8:59 | 10/7/20 14:30 | 331 | YES | 331 | | N/A |
| Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. | | | | | | | , | | | ,, |
| Line 6 SV144 NOx/SO2 10/7/20 14:30 10/7/20 21:46 436 YES 436 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. Bypass necessary to protect plant equipment. Bypass necessary to protect plant to protect plant equipment. Bypass necessary to protect plant equipment. Bypass necessary to protect plant equipment. Bypass necessary to protect plant equipment. Bypass necessary to protect plant equipment. Bypass necessary to protect plant equipment. Bypass necessary to protect plant equipment. | | | 1 | | | | | | · · · · · · · · · · · · · · · · · · · | |
| Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 Bypass necessary to protect plant equipment. | line 6 | 51/144 | NOVSO2 | 10/7/20 14:30 | 10/7/20 21:46 | 436 | VES | 436 | | N/A |
| Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/8/20 2:47 10/8/20 2:53 6 YES 6 to protect plant N/A | Line | OVITT | 1100002 | 10/1/20 14.00 | 10///20 21.40 | 700 | 110 | 750 | | N/C |
| Line 6 SV144 NOx/SO2 10/7/20 21:55 10/7/20 22:30 35 YES 35 to protect plant equipment. Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/8/20 2:47 10/8/20 2:53 6 YES 6 to protect plant N/A | | | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| Equipment Equi | Liero | 0.44 | 10,4000 | 40/7/00 04-77 | 4057500 00:00 | or or | VI-0 | 0.5 | | ,,,, |
| Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 Bypass necessary to protect plant equipment. Line 6 SV144 NOx/SO2 10/8/20 2:47 10/8/20 2:53 6 YES 6 to protect plant N/A | ппе б | OV144 | NOX/SUZ | 10///20 21:55 | 10/7/20 22:30 | აი | YES | 35 | , , | N/A |
| Line 6 SV144 NOx/SO2 10/7/20 22:30 10/8/20 0:50 140 YES 140 to protect plant equipment. N/A Line 6 SV144 NOx/SO2 10/8/20 2:47 10/8/20 2:53 6 YES 6 to protect plant N/A | <u> </u> | | 1 | | | | | | , . | |
| equipment. | | | | | | | | | | |
| Line 6 SV144 NOx/SO2 10/8/20 2:47 10/8/20 2:53 6 YES 6 to protect plant N/A | Line 6 | SV144 | NOx/SO2 | 10/7/20 22:30 | 10/8/20 0:50 | 140 | YES | 140 | , | N/A |
| Line 6 SV144 NOx/SO2 10/8/20 2:47 10/8/20 2:53 6 YES 6 to protect plant N/A | | | | | | | | | equipment. | |
| , | 1 | | | | | | | | Bypass necessary | |
| equipment. | Line 6 | SV144 | NOx/SO2 | 10/8/20 2:47 | 10/8/20 2:53 | 6 | YES | 6 | to protect plant | N/A |
| | 1 | | 1 | | | | | | equipment. | |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|-------------------------|--|--|--|--|---|---|---|---|---|
| Monitor ID number | Emission Unit Required to be Monitored | Poilutant and Limit Required to be Monitored | Beginning Date and Time of Bypass Period | End date and time of bypass period | Duration of monitor bypass (minutes) | Was P.C.E. operating during bypass period? | Duration of allowable monitor bypass | Reason for monitor bypass (clarifying comments) | Corrective action taken (clarifying comments) |
| Line 6 | SV144 | NOx/SO2 | 10/9/20 4:40 | 10/9/20 5:27 | 47 | YES | 47 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 4:10 | 10/18/20 4:42 | 32 | YES | 32 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 15:30 | 10/18/20 15:36 | 6 | YES | 6 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 15:43 | 10/18/20 15:51 | 7 | YES | 7 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 16:27 | 10/18/20 16:42 | 15 | YES | 15 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 18:07 | 10/18/20 18:22 | 15 | YES | 15 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 18:24 | 10/18/20 18:32 | 8 | YES | 8 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 19:44 | 10/18/20 20:02 | 18 | YES | 18 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 20:31 | 10/18/20 20:36 | 5 | YES | 5 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 20:53 | 10/18/20 21:01 | 7 | YES | 7 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 21:06 | 10/18/20 22:13 | 67 | YES | 67 | Bypass necessary to profect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 22:20 | 10/18/20 22:30 | 10 | YES | 10 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 22:30 | 10/18/20 22:59 | 29 | YES | 29 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/18/20 23:03 | 10/19/20 6:30 | 447 | YES | 447 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/19/20 6:30 | 10/19/20 14:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/19/20 14:30 | 10/19/20 20:50 | 380 | YES | 380 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/28/20 23:29 | 10/29/20 0:04 | 35 | YES | 35 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/29/20 1:13 | 10/29/20 1:46 | 33 | YES | 33 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 10/31/20 8:47 | 10/31/20 9:06 | 19 | YES | 19 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/2/20 17:31 | 11/2/20 17:44 | 13 | YES | 13 | Bypass necessary to protect plant equipment. | N/A |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|-------------------------|--|--|--|------------------------------------|--------------------------------------|---|--------------------------------------|---|--|
| Monitor ID number | Emission Unit Required to be Monitored | Pollutant and Limit Required to be Monitored | Beginning Date and Time of Bypass Period | End date and time of bypass period | Duration of monitor bypass (minutes) | Was P.C.E. operating during bypass period? | Duration of allowable monitor bypass | Reason for monitor bypass (clarifying comments) | Corrective action taken (clarifying comments) |
| Line 6 | SV144 | NOx/SO2 | 11/3/20 6:51 | 11/3/20 8:56 | 125 | YES | 125 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/7/20 13:39 | 11/7/20 14:05 | 26 | YES | 26 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/10/20 22:30 | 11/10/20 22:59 | 29 | YES | 29 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/11/20 9:59 | 11/11/20 14:30 | 271 | YES | 271 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/11/20 14:30 | 11/11/20 22:08 | 458 | YES | 458 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/13/20 14:35 | 11/13/20 15:02 | 26 | YES | 26 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/14/20 7:59 | 11/14/20 8:41 | 42 | YES | 42 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/14/20 9:04 | 11/14/20 10:25 | 82 | YES | 82 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/14/20 11:35 | 11/14/20 14:30 | 175 | YES | 175 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/14/20 14:30 | 11/14/20 14:33 | 3 | YES | 3 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/16/20 18:17 | 11/16/20 22:30 | 253 | YES | 253 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/16/20 22:30 | 11/17/20 6:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 11/17/20 6:30 | 11/17/20 14:25 | 475 | YES | 475 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/2/20 2:19 | 12/2/20 2:34 | 14 | YES | 14 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/2/20 2:19 | 12/2/20 2:34 | 14 | YES | 14 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/2/20 9:45 | 12/2/20 10:40 | 55 | YES | 55 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/3/20 2:10 | 12/3/20 2:20 | 10 | YES | 10 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/8/20 20:13 | 12/8/20 20:33 | 20 | YES | 20 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/10/20 10:04 | 12/10/20 11:01 | 57 | YES | 57 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/10/20 11:30 | 12/10/20 14:30 | 180 | YES | 180 | Bypass necessary to protect plant equipment. | N/A |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|-------------------------|--|--|--|------------------------------------|---|---|--------------------------------------|--|---|
| Monitor ID number | Emission Unit Required to be Monitored | Pollutant and Limit Required to be Monitored | Beginning Date and Time of Bypass Period | End date and time of bypass period | Duration of monitor bypass (minutes) | Was P.C.E. operating during bypass period? | Duration of allowable monitor bypass | Reason for monitor bypass (clarifying comments) | Corrective action taken (clarifying comments) |
| Line 6 | SV144 | NOx/SO2 | 12/10/20 14:30 | 12/10/20 14:39 | 9 | YES | 9 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/10/20 15:07 | 12/10/20 20:20 | 313 | YES | 313 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/10/20 21:08 | 12/10/20 21:47 | 39 | YES | 39 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/14/20 19:21 | 12/14/20 20:25 | 64 | YES | 64 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/15/20 13:44 | 12/15/20 14:15 | 31 | YES | 31 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/15/20 19:52 | 12/15/20 20:21 | 29 | YES | 29 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/15/20 22:30 | 12/15/20 22:59 | 29 | YES | 29 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/16/20 5:59 | 12/16/20 14:30 | 511 | YES | 511 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/16/20 14:30 | 12/16/20 16:46 | 136 | YES | 136 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/16/20 16:50 | 12/16/20 19:40 | 170 | YES | 170 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/16/20 20:17 | 12/16/20 21:15 | 58 | YES | 58 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/18/20 5:20 | 12/18/20 6:30 | 70 | YES | 70 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/18/20 6:30 | 12/18/20 14:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/18/20 14:30 | 12/18/20 22:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/18/20 22:30 | 12/19/20 6:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/19/20 6:30 | 12/19/20 14:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/19/20 14:30 | 12/19/20 17:53 | 203 | YES | 203 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/20/20 16:25 | 12/20/20 17:17 | 52 | YES | 52 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/20/20 19:45 | 12/20/20 20:53 | 68 | YES | 68 | Bypass necessary to protect plant equipment, | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/22/20 12:12 | 12/22/20 13:48 | 95 | YES | 95 | Bypass necessary to protect plant equipment. | N/A |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|---------|----------------|-----------------|----------------|----------------|-------------|---------------|-------------|--|--------------|
| | E | , | Designing Date | End data and | Duration of | Was P.C.E. | Duration of | Reason for monitor | Corrective |
| Monitor | Emission Unit | Pollutant and | Beginning Date | End date and | monitor | operating | allowable | | action taken |
| ID. | Required to be | Limit Required | and Time of | time of bypass | bypass | during bypass | monitor | bypass (clarifying | (clarifying |
| number | Monitored | to be Monitored | Bypass Period | period | (minutes) | period? | bypass | comments) | comments) |
| Line 6 | SV144 | NOx/SO2 | 12/22/20 14:18 | 12/22/20 14:30 | 12 | YES | 12 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/22/20 14:30 | 12/22/20 14:39 | 9 | YES | 9 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/29/20 9:33 | 12/29/20 9:46 | 13 | YES | 13 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/29/20 15:12 | 12/29/20 15:30 | 18 | YES | 18 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/29/20 16:57 | 12/29/20 17:19 | 22 | YES | 22 | Bypass necessary to protect plant equipment. | N/A |
| Line 6 | SV144 | NOx/SO2 | 12/29/20 16:57 | 12/29/20 17:19 | 22 | YES | 22 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 10/10/20 9:09 | 10/10/20 9:35 | 26 | YES | 26 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 10/13/20 22:30 | 10/13/20 22:59 | 29 | YES | 29 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 10/14/20 10:59 | 10/14/20 22:30 | 691 | YES | 691 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 10/14/20 22:30 | 10/14/20 22:56 | 26 | YES | 26 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/4/20 5:03 | 11/4/20 6:23 | 80 | YES | 80 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/6/20 15:20 | 11/6/20 15:38 | 18 | YES | 18 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/9/20 8:26 | 11/9/20 8:59 | 34 | YES | 34 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/9/20 23:37 | 11/10/20 0:23 | 46 | YES | 46 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/12/20 15:50 | 11/12/20 16:14 | 25 | YES | 25 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/14/20 1:00 | 11/14/20 3:08 | 128 | YES | 128 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/15/20 6;15 | 11/15/20 6:30 | 15 | YES | 15 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/15/20 6:30 | 11/15/20 6:33 | 3 | YES | 3 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/16/20 12:07 | 11/16/20 12:21 | 14 | YES | 14 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/16/20 12:57 | 11/16/20 13:38 | 41 | YES | 41 | Bypass necessary to protect plant equipment. | N/A |

5) Monitor Bypasses: Provide the following information for each period in which an emission unit is operating but is not being monitored because emissions were either partially or totally diverted around the monitoring system See Minn. R. 7017.1110 subp. 2c

| 5a) | 5b) | 5c) | 5d) | 5e) | 5f) | 5g) | 5h) | 5i) | 5j) |
|-------------------------|--|--|--|------------------------------------|---|---|---|---|--|
| Monitor ID number | Emission Unit Required to be Monitored | Pollutant and Limit Required to be Monitored | Beginning Date and Time of Bypass Period | End date and time of bypass period | Duration of monitor bypass (minutes) | Was P.C.E. operating during bypass period? | Duration of allowable monitor bypass | Reason for monitor bypass (clarifying comments) | Corrective action taken (clarifying comments) |
| Line 7 | SV151 | NOx/SO2 | 11/16/20 18:58 | 11/16/20 20:14 | 76 | YES | 76 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/17/20 9:07 | 11/17/20 9:50 | 43 | YES | 43 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/28/20 18:15 | 11/28/20 18:34 | 20 | YES | 20 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/29/20 22:30 | 11/29/20 22:59 | 29 | YES | 29 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 11/30/20 18:59 | 12/1/20 6:30 | 691 | YES | 691 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 12/1/20 6:30 | 12/1/20 14:30 | 480 | YES | 480 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 12/1/20 14:30 | 12/1/20 16:43 | 133 | YES | 133 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 12/10/20 5:59 | 12/10/20 6:30 | 31 | YES | 31 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 12/10/20 14:30 | 12/10/20 20:54 | 384 | YES | 384 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 12/12/20 21:30 | 12/12/20 21:43 | 13 | YES | 13 | Bypass necessary to protect plant equipment. | N/A |
| Line 7 | SV151 | NOx/SO2 | 12/29/20 16:11 | 12/29/20 16:26 | 15 | YES | 15 | Bypass necessary to protect plant equipment. | N/A |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | l | 5k) Total (| duration of allow | l /able monito | r bypass: | 513 | hours | |

COMS audits

| Subject item | Operating hours | Monitor ID | Pollutant | Last audit date | Cal error results | Pass/fail | Next test due by: | Comments |
|------------------|--------------------|--------------|-----------|--------------------|--------------------------------|-----------|----------------------|--|
| | | | 1 | | | | | |
| 1/A | | | | | | | | 05/7000 1 100/06 |
| Cylinder | r gas audit' | s (CGA) | | | | | | |
| Emission | Operating | 1 | 1 | Last audit | | | Next test | |
| unit | hours | Monitor ID | Pollutant | date | Cal error results Low 2.27% | Pass/fail | due by: | Comments |
| SV103 | 2179 | MR001 | NOx | 11/3/2020 | Mid 1.06% | Pass | 3/31/2021 | |
| SV118 | 2110 | MR002 | NOx | 11/3/2020 | Low 2.02% Mid 1.01% | | 3/31/2021 | |
| | | | | | Low 1.37% | | | |
| SV127 | 2195 | MR003 | NOx | 11/3/2020 | Mid 0.87% Low 2.32% | | 3/31/2021 | |
| SV144 | 2174 | MR004 | NOx | 11/4/2020 | Mid 0.38% Low 2.80% | | 3/31/2021 | |
| SV151 | 2176 | MR005 | NOx | 11/4/2020 | Mid 1.11% | Pass | 3/31/2021 | |
| SV103 | 2179 | MR001 | 802 | 11/3/2020 | Low 1.18% Mid 3.01% | | 3/31/2021 | |
| SV118 | 2110 | MR002 | SO2 | 11/3/2020 | Low 1.18% Mid 1.99% | | 3/31/2021 | |
| | | | | | Low 3.01% | | 1 | |
| SV127 | 2195 | MR003 | S02 | 11/3/2020 | Mid 4.52% Low 0.39% | | 3/31/2021 | |
| SV144 | 2174 | MR004 | SO2 | 11/4/2020 | Mid 0.74% Low 3.27% | | 3/31/2021 | |
| SV151 | 2176 | MR005 | SO2 | 11/4/2020 | Mid 0.18% | | 3/31/2021 | |
| | | | | | | 1 | | |
| | | | | | | | | |
| Linearit | <u></u> | | | | | | | |
| Emission unit | Operating hours | Monitor ID | Pollutant | Last audit date | Cal error results | Pass/fail | Next test due by: | Comments |
| | | | | | Low | | | |
| N/A | | | | | High | ·- | | |
| | | test audit (| RATA) | | | | | , |
| Emission unit | Operating hours | Monitor ID | Pollutant | Last audit date | Relative accuracy | Pass/fail | Next test due by: | Comments |
| | | | | | | | | |
| SV103 | | MR001 | SO2 | 5/21/2020 | 5.0% | Pass | 2nd Qtr 2021 | |
| | | | | | | | | |
| SV103 | | MR001 | NOx | 5/21/2020 | 8.9% | Pass | 2nd Qtr 2021 | |
| | | | | | | | | |
| SV118 | | MR002 | SO2 | 5/20/2020 | 6.2% | Pass | 2nd Qtr 2021 | |
| | | | | E /20 10 0 5 2 | | | | |
| SV118 | com comm | MR002 | NOx | 5/20/2020 | 1,0% | Pass | 2nd Qtr 2021 | |
| SV127 | | MR003 | SO2 | 5/22/2020 | 3.1% | Pass | 2nd Qtr 2021 | |
| 00127 | | Mirkooo | 1002 | 0/22/2020 | 0.170 | 1 433 | End Qu 2021 | |
| SV127 | | MR003 | NOx | 5/22/2020 | 11.5% | Pass | 2nd Qtr 2021 | |
| | | | | | | | | DATA |
| SV144 | 1798 | MR004 | SO2 | 8/19/2020 | 11.3% | Pass | 2nd Qtr 2021 | RATA was completed in 3rd Qtr upon restart of operations after idle. |
| | | | | | | | | RATA was completed in 3rd Qtr upon |
| SV144 | 1798 | MR004 | NOx | 8/19/2020 | 10.4% | Pass | 2nd Qtr 2021 | restart of operations after idle. |
| | | | | | | | | RATA was completed in 3rd Qtr upon |
| SV151 | 1773 | MR005 | SO2 | 8/20/2020 | 5.2% | Pass | 2nd Qtr 2021 | restart of operations after idle. |
| 0) (4.5.4 | 4770 | MENOR | luo. | n ma icasa | 0.00 | Doc- | 0-4 04- 0004 | RATA was completed in 3rd Qtr upon |
| SV151 | 1773 | MR005 | NOx | 8/20/2020 | 8.6% | Pass | 2nd Qtr 2021 | restart of operations after idle. |
| | | | 1 | | | | | |
| | I | | | | | | 1 | |

6) CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

| n 12 | Lukas Klemke |
|-----------------------------------|--------------------------------------|
| Signature of Responsible Official | Printed Name of Responsible Official |
| | |
| Plant Manager - Minnesota Ore | January 27, 2021 |
| Title | Date |

Summary Table by Monitor Downtime Type U. S. Steel - Minntac 4th Quarter 2020

NOx

| 0 Data Handling System Malfunction 0 Excess Drift Ancillary Analyzer 0 Excess Drift Primary Analyzer 8 Primary Analyzer Malfunction 0 Preventative Maintenance 1 Sample Interface Malfunction Line 4 8 Automatic Calibration 0 Data Handling System Malfunction 0 Excess Drift Ancillary Analyzer 4 Excess Drift Primary Analyzer 0 Sample Interface Malfunction 4 Primary Analyzer Malfunction | Line | Duration (Hrs) | Description |
|---|--------|----------------|----------------------------------|
| 0 | Line 3 | 5 | Automatic Calibration |
| D | | 0 | Data Handling System Malfunction |
| 8 | | 0 | Excess Drift Ancillary Analyzer |
| 0 | | 0 | Excess Drift Primary Analyzer |
| 1 | | 8 | Primary Analyzer Malfunction |
| Line 4 8 Automatic Calibration 0 Data Handling System Malfunction 0 Excess Drift Ancillary Analyzer 4 Excess Drift Primary Analyzer 0 Sample Interface Malfunction 4 Primary Analyzer Malfunction Line 5 2 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 0 Excess Drift Primary Analyzer 4 Sample Interface Malfunction 0 Primary Analyzer Malfunction 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 25 Excess Drift Primary Analyzer 7 Primary Analyzer Malfunction 0 Sample Interface Malfunction 0 Data Handling System Malfunction 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 0 Secondary Analyzer Malfunction 0 Secondary Analyzer Malfunction 0 Secondary Analyzer Malfunction 0 <td< td=""><td></td><td>0</td><td>Preventative Maintenance</td></td<> | | 0 | Preventative Maintenance |
| 0 Data Handling System Malfunction 0 Excess Drift Ancillary Analyzer 4 Excess Drift Primary Analyzer 0 Sample Interface Malfunction 4 Primary Analyzer Malfunction Line 5 2 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 0 Excess Drift Primary Analyzer 4 Sample Interface Malfunction 0 Primary Analyzer Malfunction Line 6 Automatic Calibration 0 Data Handling System Malfunction 25 Excess Drift Primary Analyzer 7 Primary Analyzer Malfunction 0 Sample Interface Malfunction Line 7 16 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 0 Secondary Analyzer Malfunction 0 Secondary Analyzer Malfunction 0 Secondary Analyzer Malfunction | | 1 | Sample Interface Malfunction |
| 0 | Line 4 | 8 | Automatic Calibration |
| 0 | | 0 | Data Handling System Malfunction |
| 4 | | 0 | Excess Drift Ancillary Analyzer |
| 4 | | 4 | |
| Line 5 2 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 0 Excess Drift Primary Analyzer 4 Sample Interface Malfunction 0 Primary Analyzer Malfunction Line 6 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 25 Excess Drift Primary Analyzer 7 Primary Analyzer Malfunction 0 Sample Interface Malfunction 10 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 0 Secondary Analyzer Malfunction 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | | 0 | Sample Interface Malfunction |
| 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 0 Excess Drift Primary Analyzer 4 Sample Interface Malfunction 0 Primary Analyzer Malfunction Line 6 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 25 Excess Drift Primary Analyzer 7 Primary Analyzer Malfunction 0 Sample Interface Malfunction Line 7 16 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | | 4 | Primary Analyzer Malfunction |
| 0 Secondary Analyzer Malfunction 0 Excess Drift Primary Analyzer 4 Sample Interface Malfunction 0 Primary Analyzer Malfunction Line 6 6 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 25 Excess Drift Primary Analyzer 7 Primary Analyzer Malfunction 0 Sample Interface Malfunction 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 0 Secondary Analyzer Malfunction 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | Line 5 | 2 | Automatic Calibration |
| 0 Secondary Analyzer Malfunction 0 Excess Drift Primary Analyzer 4 Sample Interface Malfunction 0 Primary Analyzer Malfunction Line 6 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 25 Excess Drift Primary Analyzer 7 Primary Analyzer Malfunction 0 Sample Interface Malfunction Line 7 16 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | | 0 | Data Handling System Malfunction |
| A Sample Interface Malfunction | | 0 | |
| A Sample Interface Malfunction | | 0 | Excess Drift Primary Analyzer |
| Line 6 6 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 25 Excess Drift Primary Analyzer 7 Primary Analyzer Malfunction 0 Sample Interface Malfunction Line 7 16 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | | 4 | |
| 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 25 Excess Drift Primary Analyzer 7 Primary Analyzer Malfunction 0 Sample Interface Malfunction Line 7 16 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | | 0 | Primary Analyzer Malfunction |
| 0 Secondary Analyzer Malfunction 25 Excess Drift Primary Analyzer 7 Primary Analyzer Malfunction 0 Sample Interface Malfunction Line 7 16 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | Line 6 | 6 | Automatic Calibration |
| 25 | | 0 | Data Handling System Malfunction |
| 7 Primary Analyzer Malfunction 0 Sample Interface Malfunction Line 7 16 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | | 0 | Secondary Analyzer Malfunction |
| 0 Sample Interface Malfunction | | 25 | Excess Drift Primary Analyzer |
| Line 7 16 Automatic Calibration 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | | 7 | Primary Analyzer Malfunction |
| 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | | 0 | Sample Interface Malfunction |
| 0 Data Handling System Malfunction 0 Secondary Analyzer Malfunction 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | Line 7 | 16 | Automatic Calibration |
| 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | | 0 | |
| 3 Excess Drift Primary Analyzer 35 Primary Analyzer Malfunction 0 Sample Interface Malfunction | | 0 | Secondary Analyzer Malfunction |
| 0 Sample Interface Malfunction | | 3 | |
| 0 Sample Interface Malfunction | | 35 | Primary Analyzer Malfunction |
| 0 Preventative Maintenance | | 0 | |
| | | 0 | Preventative Maintenance |

SO2

| Line | Duration (Hrs) | Description |
|--------|----------------|----------------------------------|
| Line 3 | 10 | Automatic Calibration |
| | 0 | Data Handling System Malfunction |
| | 0 | Excess Drift Ancillary Analyzer |
| | 18 | Excess Drift Primary Analyzer |
| | 1 | Sample Interface Malfunction |
| | 0 | Preventative Maintenance |
| | 7 | Primary Analyzer Malfunction |
| Line 4 | 8 | Automatic Calibration |
| | 0 | Data Handling System Malfunction |
| | 0 | Excess Drift Ancillary Analyzer |
| | 4 | Excess Drift Primary Analyzer |
| | 5 | Primary Analyzer Malfunction |
| | 0 | Sample Interface Malfunction |
| | 0 | Preventative Maintenance |
| Line 5 | 2 | Automatic Calibration |
| | 0 | Data Handling System Malfunction |
| | 0 | Secondary Analyzer Malfunction |
| | 0 | Excess Drift Primary Analyzer |
| | 2 | Sample Interface Malfunction |
| | 0 | Primary Analyzer Malfunction |
| | 0 | Preventative Maintenance |
| Line 6 | 7 | Automatic Calibration |
| | 0 | Sample Interface Malfunction |
| | 0 | Secondary Analyzer Malfunction |
| | 1 | Excess Drift Primary Analyzer |
| | 26 | Primary Analyzer Malfunction |
| | 0 | Sample Interface Malfunction |
| Line 7 | 13 | Automatic Calibration |
| | 0 | Data Handling System Malfunction |
| | 0 | Secondary Analyzer Malfunction |
| | 1 | Excess Drift Primary Analyzer |
| | 32 | Primary Analyzer Malfunction |
| | 0 | Sample Interface Malfunction |